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Number 109

August 1991

# The Protection of Nut Crops, 1979 - April 1991

## Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations



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## Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations

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United States Department of Agriculture  
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## FOREWORD

This is the 41st volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the U.S. Department of Agriculture, National Agricultural Library (USDA-NAL), and the U.S. Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from U.S. publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.

JOSEPH H. HOWARD, Director  
National Agricultural Library

DOUGLAS D. CAMPT, Director  
Office of Pesticide Programs



## INTRODUCTION

The citations in this bibliography, The Protection of Nut Crops, are selected from the AGRICOLA database concerning diseases and other environmental considerations from January 1979 to April 1991.

This is the 41st volume in a series of commodity-oriented listings of citations from AGRICOLA jointly sponsored by the U.S. Department of Agriculture, National Agricultural Library (USDA-NAL), and the U.S. Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP). Additional volumes issued recently include The Protection of Tropical and Subtropical Fruits, The Protection of Small Grains, The Protection of Cucurbits, The Protection of Minor Vegetable Crops, The Protection of Peas, Beans, and Lentils, and The Protection of Forestry. The other 1991 volumes will cover The Protection of Stored Grains, The Protection of Lawn and Turf Grasses, The Protection of Tomatoes, Egg Plants and Peppers, and The Protection of Peanuts.

Entries in the bibliography are subdivided into a series of section headings used in the contents of the Bibliography of Agriculture. Each item appears under every section heading assigned to the cited document. A personal author index and a site index to plants are included with each volume.

The U.S. Environmental Protection Agency contact for this project is Richard B. Peacock, Office of Pesticides and Toxic Substances.

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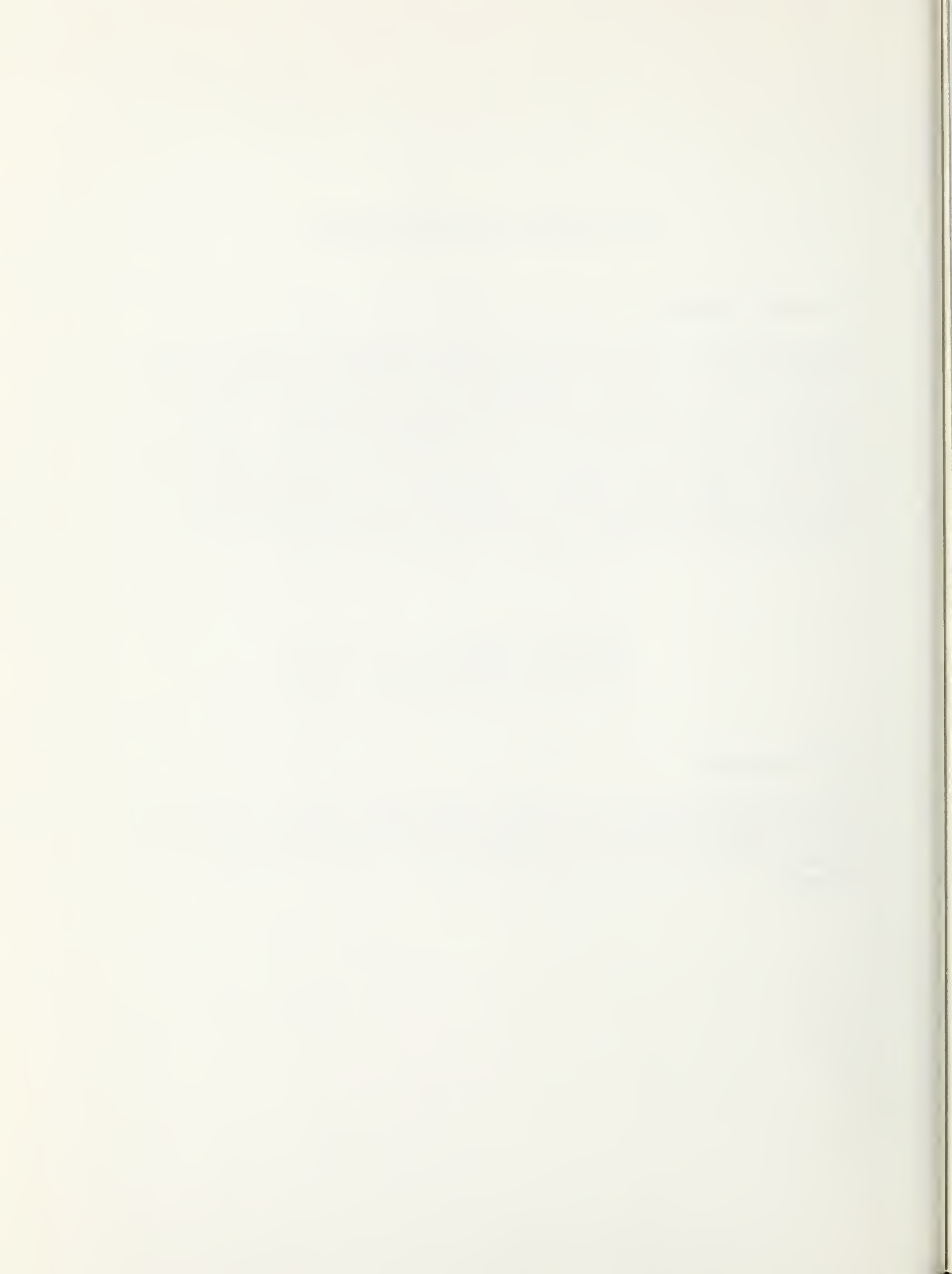
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### **A comparison of four methods of pecan orchard establishment.**

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0299

### **Comparison of potting mixes for macadamia nut trees.**

Trochoulas, T. Boulder, Colo., The Society. Combined proceedings - International Plant Propagators' Society. 1980 (pub. 1981). v. 30. p. 608-612. 3 ref. (NAL Call No.: 451 P692).

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Worley, R.E. Littrell, R.H.; Dutcher, J.D. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 69-71. 5 ref. (NAL Call No.: 94.69 G29).

0301

### **Competitive tree nuts: pistachios (Production, varieties).**

Axer, J. Sacramento, California Almond Growers Exchange. Almond facts. Mar/Apr 1981. v. 46 (2). p. 51-54. (NAL Call No.: 280.28 AL62).

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### **Competitive tree nuts. 2. Filberts/hazelnuts (Includes marketing, consumption).**

Axer, J. Sacramento, California Almond Growers Exchange. Almond facts. May/June 1980. v. 45 (3). p. 32-34, 54-55. ill. (NAL Call No.: 280.28 AL62).

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### **Competitive tree nuts. 7. Macadamia nuts.**

Axer, J. Sacramento, California Almond Growers Exchange. Almond facts. May/June 1981. v. 46 (3). p. 36-40. (NAL Call No.: 280.28 AL62).

0304

### **Competitive tree nuts. 8. Conclusion: all in the family (Production, marketing, USA).**

Axer, J. Sacramento, California Almond Growers Exchange. Almond facts. July/Aug 1981. v. 46 (4). p. 43-47. (NAL Call No.: 280.28 AL62).

0305

### **The composition and value of pinon nuts /C.W. Botkin and L.B. Shires.**

Botkin, C. W. Shires, L. B. 1896-. Las Cruces, N.M. : Agricultural Experiment Station, New Mexico College of A. and M., 1948. Cover title. 14 p. : ill. ; 23 cm. Bibliography: p. 14. (NAL Call No.: DNAL 100 N465 (1) no.344).

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### **Computer applications in pecan production.**

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0307

### **Computer production cost model for filberts.**

PNGOA. Riggert, C. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1986. (71st). p. 76, 78-80, 82-84. (NAL Call No.: DNAL 94.69 W52).

0308

### **Consequences of hedge pruning pecan trees.**

Malstrom, H.L. Haller, R.L. College Station, Tex., The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1980. v. 58. p. 52-56. ill. 6 ref. (NAL Call No.: 94.69 T31).

0309

### **Considerations for almond growers during this period of low returns.**

Rough, D. ALMFA. Sacramento : California Almond Growers Exchange. Almond facts. Jan/Feb 1983. v. 48 (1). p. 47-48. Includes references. (NAL Call No.: 280.28 AL62).

0310

### **Consumptive water use of irrigated pecans (Evapotranspiration, irrigation scheduling, *Carya illinoensis*, Texas).**

Miyamoto, S. JOSH. Alexandria : The Society. Journal of the American Society for Horticultural Science. Sept 1983. v. 108 (5). p. 676-681. ill. Includes references. (NAL Call No.: 81 SD12).

0311

### **Container-grown pecan seedlings.**

PEQUA. Hathaway, R.D. Whitcomb, C.E. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Jan 1985. v. 19 (1). p. 14-19. ill. Includes references. (NAL Call No.: DNAL SB401.A1P4).

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0312

The continuing quest for quality proceedings, fourth Black Walnut Symposium, July 30-August 2, 1989, Southern Illinois University at Carbondale /John E. Phelps, program chairman and editor ; Dwight R. McCurdy, co-chairman. Phelps, John E.; McCurdy, Dwight R. Indianapolis, IN : Walnut Council, 1989. vi, 310 p. : ill. ; 28 cm. Includes bibliographical references. (NAL Call No.: DNAL SD397.W2B52 1989).

0313

**Continuous hedge pruning affects light penetration, and nut production of 'Western' pecan trees.**

Malstrom, H.W. Riley, T.D.; Jones, J.R. Bryan, Texas Pecan Growers Association. The pecan quarterly. Aug 1982. v. 16 (3). p. 4, 6-15. ill. 18 ref. (NAL Call No.: SB401.A1P4).

0314

**Control of pecan tree size by bioregulating chemicals.**

Wood, B.W. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Meeting held in March, 1987, Savannah, Georgia. Mar 1987. (80th). p. 40-45. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

0315

**Controlling pecan tree size with paclobutrazol.**

NONGA. Reighard, G.L. Wood, B.W.; Aitken, J.B. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 68-72. Includes references. (NAL Call No.: DNAL 94.69 N81).

0316

**Cost and efficiency in producing walnuts in western Oregon /G.W. Kuhlman, C.E. Schuster.**

Kuhlman, G. W. 1894-. Schuster, C. E. 1889-. Corvallis, Ore. : Oregon State System of Higher Education, Agricultural Experiment Station, Oregon State College, 1941. Cover title. 59 p. : ill. ; 23 cm. (NAL Call No.: DNAL 100 Or3 no.396).

0317

**Cost and efficiency in the filbert enterprise in Oregon / A.S. Burrier, C.E. Schuster .**

Burrier, A. S. 1902-. Schuster, C. E. 1889-. Corvallis, Ore. : Oregon State System of Higher Education, Agricultural Experiment Station, Oregon State College, 1937. Cover title. 60 p. : ill. ; 23 cm. (NAL Call No.: DNAL 100 Or3 no.351).

0318

**Costs and returns for producing selected irrigated crops on farms with above-average management in the Lower Rio Grande Valley, Dona Ana and Sierra Counties, 1980 (Cotton, grain sorghum, chile, alfalfa, onions, lettuce, pecans, tomatoes and small grains).**

Libbin, J.D. Dillon, J.J. Jr.; Jones, M.L.; Porter, L.J.; Nelson, D.C.; Lansford, R.R.; Gutierrez, P.; Gollehon, N.R.; Vargas, J.; Lamb, R.F. Las Cruces : The Station. Research report - New Mexico, Agricultural Experiment Station. Dec 1981. Dec 1981. (458). 44 p. 6 ref. (NAL Call No.: 100 N465R).

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Sibbett, G.S. CA. Ramos, D.E.; Brown, L.C. Berkeley, Calif. : The Service. Leaflet - University of California, Cooperative Extension Service. May 1980. May 1980. (21157). 19 p. ill. (NAL Call No.: S544.3.C2C3).

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0395

**"Extra step" pays for pecan producer (Carya illinoensis, drip irrigation, orchard management, Georgia).**

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NONGA. Oavie, L. Oavie B. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 37-39. ill. (NAL Call No.: ONAL 94.69 N81).

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**Field evaluation of almond varieties.**

ALMFA. Kester, O. Micke, W. Sacramento, Calif. : California Almond Growers Exchange. Almond facts. July/Aug 1986. v. 51 (4). p. 34. (NAL Call No.: ONAL 280.28 AL62).

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Stebbins, R.L. Tigard, Ore., Nut Growers Society of Oregon, Washington and British Columbia. Proceedings of the Nut Growers Society of Oregon Washington & British Columbia Nut Growers Society of Oregon, Washington and British Columbia. 1981. 1981. (66th). p. 90-91. (NAL Call No.: 94.69 W52).

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0405

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0417

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0419

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0420

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Walker, D.R. Seeley, S.D.; Hamson, A.R.; Walser, R.H.; Anderson, J.L.; Weeks, M.G.; Wright, W.A. Logan, Utah, The Service. Extension circular - Utah State University, Extension Service. May 1980. May 1980. (389). 10 p. (NAL Call No.: 275.29 UT1).

0421

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0422

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S544.3.A2C47).

0423

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0424

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0425

**Fruit set of 'Success' pecans, unaffected by triphenyltin hydroxide fungicide sprays during pollination.**

HUHSA. Goff, W.D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Aug 1990. v. 25 (8). p. 921-922. Includes references. (NAL Call No.: DNAL SB1.H6).

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0427

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0428

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0429

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0430

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Doby, J.W. McEachern, G.R. Bryan, Texas Pecan Growers Association. The pecan quarterly. Aug 1982. v. 16 (3). p. 16-18. ill. (NAL Call No.: SB401.A1P4).

0431

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0432

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Reich, J.E. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. 1980. (71st). p. 110-111. Includes 6 ref. (NAL Call No.: 94.69 N81).

0433

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PEQUA. Crocker, T.F. Bryan : Texas Pecan Growers Association. The pecan quarterly. May/July 1984. v. 18 (2). p. 12-13. (NAL Call No.: DNAL SB401.A1P4).

0434

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Mac Carthaigh, D. Boulder : International Plant Propagators' Society. The Plant propagator. Mar 1983. v. 29 (1). p. 12-14. ill. Includes references. (NAL Call No.: 81 P692).

0435

**Good management begins prior to tree planting.**  
PEQUA. McEachern, G.R. Stein, L.A. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Jan/Feb 1986. v. 20 (1). p. 12-17. ill. (NAL Call No.: DNAL SB401.A1P4).

0436

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Louis Gerardi Nursery. O'Fallon, Ill. : Louis Gerardi Nursery. Description based on: 1976; title form cover. v. ; 17 cm. (NAL Call No.: DNAL SB115.Z9G38 R).

0437

**Grafting & budding.**  
Schaller, C.C. Little Rock, Ark. : The Service. Leaflet EL - Arkansas University, Cooperative Extension Service. 1987? . (262). 12 p. ill. (NAL Call No.: DNAL 275.29 AR4LE).

0438

**Grafting and budding pecans.**  
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0439

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NONGA. Ryser, F.C. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 43-45. (NAL Call No.: DNAL 94.69 N81).

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0444

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0445

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0446

### **Greenwood budding of pecans, hicans, and hickories.**

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0447

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Davie, B. Davie, L. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. 1980. (71st). p. 63-65. ill. (NAL Call No.: 94.69 N81).

0449

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PEQUA, Madden, G. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. July 1990. v. 24 (4). p. 15-18. ill. (NAL Call No.: DNAL SB401.A1P4).

0450

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**Growing filberts in Oregon (VBarieties, nuts, development, pollination, orchard management, disease control, Anisogramma anomala).** Baron, L.C. Stebbins, R. Corvallis, Or., The Service. Extension circular - Oregon State University, Extension Service. June 1981. June 1981. (628). 30 p. ill. (NAL Call No.: 275.29 OR32C).

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0455

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0457

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July 1980. v. 13 (3). p. 155-157. ill. (NAL  
Call No.: SB354.N6).

0458

**Growing nut trees from seed and grafting.**  
Liddington, C.E. Madisonville, Ky., North  
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pomona. July 1980. v. 13 (3). p. 172-175. (NAL  
Call No.: SB354.N6).

0459

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Mich. : The Service. North Central regional  
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1986. (237). 30 p. ill., maps. (NAL Call No.:  
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0460

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Robyn, C. Robyn, S. (s.l.), The Association.  
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0461

**Growing pecan cuttings from roots.**  
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Association. The pecan quarterly. Feb 1983. v.  
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(NAL Call No.: SB401.A1P4).

0462

**Growing pecan nursery trees in containers.**  
Sloan, R.C. Jr. Overcash, J.P. Starkville,  
Miss., The Association. Proceedings ... annual  
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0463

**Growing pecan nursey trees in containers.**  
Overcash, J.P. Sloan, R.C. Jr. Atlanta, Ga.,  
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(NAL Call No.: SB401.P4P4).

0464

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0465

**Growing pecans in Missouri.**  
James, G. (s.l.), The Association. Annual  
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0466

**Growing pecans in New Mexico.**  
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0467

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PEQUA. Herrera, E. Bryan : Texas Pecan Growers Association. The pecan quarterly. Feb/Apr 1984. v. 18 (1). p. 14-19. ill., maps. (NAL Call No.: DNAL SB401.A1P4).

0468

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Stebbins, R.L. Corvallis : The Service. Extension circular - Oregon State University, Extension Service. Nov 1982. Nov 1982. (819rev.). 12 p. ill., maps. (NAL Call No.: 275.29 OR32C).

0469

**Growing trees from seed.**

NONGA. Asmus, K. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1988. (79th). p. 50-52. (NAL Call No.: DNAL 94.69 N81).

0470

**Growing walnuts in the Pacific Northwest.**

Stebbins, R.L. Corvallis : The Service. PNW - Pacific Northwest Extension Publication - Oregon State University, Extension Service. June 1983. June 1983. (235). 6 p. ill. (NAL Call No.: 275.29 W27PN).

0471

**Growth inhibitors in xylem exudates of Persian walnuts (*Juglans regia* L.) and their possible role in graft failure.**

Prataviera, A.G. JOSHB. Kuniyuki, A.H.; Ryugo, K. Alexandria : The Society. Journal of the American Society for Horticultural Science. Nov 1983. v. 108 (6). p. 1043-1045. ill. Includes references. (NAL Call No.: 81 S012).

0472

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Sibbett, G.S. Sacramento, Calif. : California Weed Conference Office. Proceedings - California Weed Conference. Paper presented at the "Plant Growth Regulator Symposium," January 27/28, 1986, Fresno, California. 1986. (38th, suppl.). p. 8-10. (NAL Call No.: DNAL 79.9 C122).

0473

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O'Barr, R.D. Rachal, S. Baton Rouge : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Fall 1982. v. 26 (1). p. 3, 24. ill. (NAL Call No.: 100 L939).

0474

**Growth studies of the pecan /by C.L. Isbell.**

Isbell, C. L. Auburn, Ala. : Agricultural Experiment Station of The Alabama Polytechnic Institute, 1928. Cover title. 68 p. : ill. ; 23 cm. Bibliography: p. 67-68. (NAL Call No.: DNAL 100 AL1s (1) no.226).

0475

**A guide to the insect borers, pruners, and girdlers of pecan and hickory /J.D. Solomon and J.A. Payne.**

Solomon, J. D. Payne, J. A. New Orleans, La. : U.S. Dept. of Agriculture, Forest Service, Southern Forest Experiment Station, 1986. Cover title. ~ "October 1986.". i, 31 p. : ill. ; 28 cm. Bibliography: p. 28-30. (NAL Call No.: DNAL aSD11.U57 no.64).

0476

**Guthion-resistant walnut aphid parasite: release, dispersal, and recovery in orchards.**

CAGRA. Hoy, M.A. Cave, F.E.; Beede, R.H.; Grant, J.; Krueger, W.H.; Olson, W.H.; Spollen, K.M.; Barnett, W.W.; Hendricks, L.C. Oakland, Calif. : Division of Agriculture and Natural Resources, University of California. California agriculture. Sept/Oct 1989. v. 43 (5). p. 21-23. (NAL Call No.: DNAL 100 C12CAG).

0477

**Hardy grafted nut trees price list /Bernath's Nursery.**

Bernath's Nursery. Poughkeepsie, N.Y. : The Nursery,. Description based on: 1956; title from caption. v. ; 16-28 cm. (NAL Call No.: DNAL SB115.Z9B53 R).

0478

**Harvesting pecans with mechanical harvesters and no sod.**

Bennett, J. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 45. (NAL Call No.: DNAL 94.69 T31).

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0479

### **Harvesting with a labor force.**

Sorrels, K. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 44. (NAL Call No.: DNAL 94.69 T31).

0480

### **Hazelnut production in British Columbia.**

PNGOA. Wigand, H. Riggert, C. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1986. (71st). p. 86-90. (NAL Call No.: DNAL 94.69 W52).

0481

### **Hedging pecan trees at Leonard Farm (Costs).**

Anthony, J.E. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1982 (pub. 1984). 1982 (pub. 1984). (61st). p. 62-66. ill. (NAL Call No.: 94.69 T31).

0482

**Here's your catalog from Sierra Gold Nurseries.** Sierra Gold Nurseries. Yuba City, Calif. : The Nurseries. Description based on: 1980-1981; title from cover. v. : col. ill. ; 26 cm. (NAL Call No.: DNAL SB115.Z9S563 R).

0483

### **High density pecan plantings in Oklahoma.**

Smith, M.W. Hinrichs, H.A. College Station, Texas Pecan Growers Association. The pecan quarterly. Nov 1980. v. 14 (4). p. 4-6. ill. 6 ref. (NAL Call No.: SB401.A1P4).

0484

### **High density pecans--a review.**

Arnold, C.E. Baker, L.H. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. Literature review. 1982. (75th). p. 41-45. Includes 27 ref. (NAL Call No.: 94.69 G29).

0485

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PEQUA. Boudreaux, J.E. Jones, L.G.; Young, W.A.; Peterson, F.J.; Lartigue, M.G.; Cunningham, R.L.; Kahlich, C.G. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. July 1985. v. 19 (4). p. 14-21. Includes 18 references. (NAL

Call No.: DNAL SB401.A1P4).

0486

### **High density spacing ... an alternative for pecan growers (Costs).**

Law, J.M. Ator, D.W.; Young, W.A. Atlanta, Ga., Publications South, Inc. Pecan South. Mar 1980. v. 7 (2). p. 36-41. ill. (NAL Call No.: SB401.P4P4).

0487

### **High-density spacing--an alternative for pecan growers (Carya illinoensis, yields, costs, returns, Louisiana).**

Law, J.M. LA. Ator, D.W.; Young, W.A. Baton Rouge, The Station. Louisiana agriculture. Louisiana. Agricultural Experiment Station. Winter 1979/80. v. 23 (2). p. 12-14. ill. (NAL Call No.: 100 L939).

0488

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Goldner, R.D. NONGA. Holton, E. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. 1982. (73rd). p. 18-19. Includes references. (NAL Call No.: 94.69 N81).

0489

### **Home fruit production--stone fruit: peaches, nectarines, plums, apricots and almonds.**

TAEBA. Stein, L.A. Lyons, C.G.; Lipe, J.A. College Station, Tex. : The Station. B - Texas Agricultural Experiment Station. Aug 1987. (1581). 8 p. ill., maps. (NAL Call No.: DNAL 100 T31S (1)).

0490

### **Home garden: pecans.**

Crocker, T. Hadden, J.; Ellis, H.C. Athens, Ga. : The Service. Circular - Cooperative Extension Service, University of Georgia. Feb 1989. (744,rev.). 4 p. ill. (NAL Call No.: DNAL 275.29 G29C).

0491

### **Home garden: pecans.**

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0492

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Crocker, T. Bertrand, P.; Ellis, H.C. Athens, Ga. : The Service. Circular - Cooperative Extension Service, University of Georgia. Jan 1985. (744, rev.). 3 p. ill. (NAL Call No.: DNAL 275.29 G29C).

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Wolfe Nursery. Stephenville, Tex. : The Nursery,. Description based on: 1976; title from cover. v. : col. ill. ; 28 cm. (NAL Call No.: DNAL SB115.Z9W64 R).

0494

**Hot-callus grafting of filbert trees.**

Strametz, J.R. Boulder : The Society. Combined proceedings - International Plant Propagators' Society. 1983 (pub. 1984). v. 33. p. 52-54. Includes 2 references. (NAL Call No.: DNAL 451 P692).

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Yarris, L. Washington, D.C., The Administration. Agricultural research - United States Dept. of Agriculture, Science and Education Administration. July 1981. v. 30 (1). p. 12-13. ill. (NAL Call No.: 1.98 AG84).

0496

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**How sampling allocation schemes affect the accuracy of nut yield estimation (Juglans nigra, black walnut).**

Kung, F.H. (Bethesda, Md.) : Society of American Foresters, 1982. In-place resource inventories : principles & practices : proceedings, workshop, August 9-14, 1981, Univ. of Maine, Orono, / spon. American Society of Photogrammetry...(et al.) ; ed. T.B. Brann, L.O. House IV, H.G. Lund. p. 968-971. Includes references. (NAL Call No.: S494.5.D6I52).

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St. Paul, MN : The Station, 1985. "HT-64"--P. 6. 6 p. : ill. ; 23 x 11 cm. (NAL Call No.: DNAL aSB401.W3H6).

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Madden, G. Wimberly, O.C. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 14-16, 1980, Abilene, Texas. 1981. v. 59. p. 41. (NAL Call No.: DNAL 94.69 T31).

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Chamberlain, Juliann K. Peek, William L. 1980. This publication trains coaches and members of judging, information and identifying teams to identify horticultural crops, learn quality characteristics and answer questions or solve horticultural problems. Document available from: 4-H Department, Purdue University, Agricultural Administration Building, West Lafayette, Indiana 47907. Publication intended for: Member, Leader, Senior High Level. Learning experience: Knowledge, skills, practices. 63 p. : ill. (NAL Call No.: S533.F66I6).(NAL Call No.: ID 140).

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NONGA. Doll, C.C. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 31-34. (NAL Call No.: DNAL 94.69 N81).

0502

**Impact of six insecticide-based arthropod pest management strategies on pecan yield, quality, and return bloom under four irrigation/soil-fertility regimes.**

EVETEX. Dutcher, J.D. Worley, R.E.; Daniell, J.W.; Moss, R.B.; Harrison, K.F. College Park, Md. : Entomological Society of America. Environmental entomology. Dec 1984. v. 13 (6). p. 1644-1653. Includes references. (NAL Call No.: DNAL QL461.E532).



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0503

### **Impact of tree stand on pecan yields.**

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0504

### **The importance of proper land surface preparation for future mechanical ground harvesting of Macadamia nuts.**

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0506

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### **Improving almond crop forecasts.**

CAGRA. Dorfman, J. Heien, D. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Mar/Apr 1987. v. 41 (3/4). p. 6-8. ill. (NAL Call No.: DNAL 100 C12CAG).

0508

### **Improving black walnut stands.**

Bratton, G.F. Aslin, R.G. Manhattan, Kan. : The Service. L - Cooperative Extension Service, Kansas State University. Jan 1985. (718). 2 p. ill. (NAL Call No.: DNAL 275.29 K13LE).

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### **Improving honey bee pollination efficiency in almonds.**

CAGRA. Loper, G.M. Thorp, R.W.; Berdel, R. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Nov/Dec 1985. v. 39 (11/12). p. 19-20. ill.

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0510

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Gallott, J. Stillwater, Okla. : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Jan 1989. (6208,rev.). 2 p. (NAL Call No.: DNAL S544.3.0505).

0511

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Taylor, G. Stillwater, Okla. : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Feb 1984. Feb 1984. (6208). 2 p. (NAL Call No.: S544.3.0505).

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### **Increase of pinon nut (*Pinus edulis*) size by basal pruning.**

Montano, J.M. Fisher, J.T.; Gomez, R.E. Alexandria, Va., American Society for Horticultural Science. HortScience. Dec 1980. v. 15 (6). p. 727-729. ill. 6 ref. (NAL Call No.: SB1.H6).

0513

### **Increased production and nut quality due to the xenia effect in pecan (*Carya illinoensis*).**

Thompson, T.E. Brown, E.J. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 145-148. 7 ref. (NAL Call No.: 94.69 G29).

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### **Inducing macadamia nut drop with ethephon.**

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0515

### **Inflation feeds intercropping--and some consequences (Almond tree cultivation, management).**

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0516

**Inflorescence bud retention in 'Kerman' pistachio: effects of defruiting date and branch size.**

HUHSA. Wolpert, J.A. Ferguson, L. Alexandria, Va. : American Society for Horticultural Science. HortScience. Aug 1990. v. 25 (8). p. 919-921. Includes references. (NAL Call No.: DNAL SB1.H6).

0517

**Influence of disk cultivation and subsoiling on productivity of a mature pecan orchard.**

HUHSA. Wood, B.W. White, A.W. Jr. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1, section 1). p. 66-68. Includes references. (NAL Call No.: DNAL SB1.H6).

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0519

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Allison, J.R. Dfiara, D.D. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 189-194. Includes 2 ref. (NAL Call No.: 94.69 G29).

0520

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CSOSA2. Smith, M.W. Wazin, F.K.; Akers, S.W. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Feb 1989. v. 71 (3/4). p. 335-344. Includes references. (NAL Call No.: DNAL S590.C63).

0521

**The influence of various treatments and timings on rooting of suckers of 'Barcelona' hazelnut in sawdust (Filbert trees).**

Stebbins, R.L. Kent, J. Tigard, Dr., The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1982. 1982. (67th). p. 69-71. (NAL Call No.: 94.69 W52).

0522

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0523

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McEachern, G.R. College Station : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1983. 1983. (60th). p. 29-35. ill. (NAL Call No.: 94.69 T31).

0524

**Intercropping black walnut.**

NDNGA. Van Sambeek, J.W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 157-162. Includes references. (NAL Call No.: DNAL 94.69 N81).

0525

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**An introduction to production, marketing and economics of growing chestnuts in the south east United States.**

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0527

**Investment analysis of establishing and operating an improved pecan orchard.**

Schatzer, R.J. Smith, M.W. Stillwater, Okla. : The Station. Current farm economics - Agricultural Experiment Station, Division of Agriculture, Oklahoma State University. Mar 1990. v. 63 (1). p. 3-11. Includes references.

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0528

### **Irrigating peacans speeds growth, boosts production, increases nut size.**

Amling, H.U. Amling, K.A. Auburn, The Station. Highlights of agricultural research. Alabama. Agricultural Experiment Station. Fall 1979. v. 26 (3). p. 16-17. ill. (NAL Call No.: 100 AL1H).

0529

### **Is your production showing? (Management of nut orchards to increase profits).**

Baron, L.C. Tigard, Ore., Nut Growers Society of Oregon, Washington and British Columbia. Proceedings of the Nut Growers Society of Oregon Washington & British Columbia Nut Growers Society of Oregon, Washington and British Columbia. 1980. p. 122-125. (NAL Call No.: 94.69 W52).

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### **It's time to consider...(Almond cultural activities for July and August, spraying for mites, fertilizers).**

Kiss, R. ALMFA. Sacramento : California Almond Growers Exchange. Almond facts. July/Aug 1983. v. 48 (4). p. 30-32. (NAL Call No.: 280.28 AL62).

0531

### **It's time to consider...(Almond cultural activities in September and October, USA).**

Kiss, R. ALMFA. Sacramento : California Almond Growers Exchange. Almond facts. Sept/Oct 1983. v. 48 (5). p. 36-37. (NAL Call No.: 280.28 AL62).

0532

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Thomson, P.H. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 37-38. (NAL Call No.: 94.69 N81).

0533

### **The Kansas three-flap graft.**

NONGA. Reid, W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 40-46. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

0534

### **Kern County: the beginning of a new era for the California almond industry.**

Clement, F. Sacramento, California Almond Growers Exchange. Almond facts. May/June 1980. v. 45 (3). p. 35-37. ill. (NAL Call No.: 280.28 AL62).

0535

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0536

### **Lateral bearing black walnuts (Cultivars, culture in the western United States).**

Sparks, A. NONGA. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. (73rd). p. 33-34. (NAL Call No.: 94.69 N81).

0537

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White, A.W. Jr. Beaty, E.R.; Tedders, W.L. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. (74th). p. 97-106. 32 ref. (NAL Call No.: 94.69 G29).

0538

### **Legumes for supplying nitrogen and studies on legumes in pecan (*Carya illinoensis*) orchards (Clover, vetch).**

White, A.W. Jr. Beaty, E.R.; Tedders, W.L. Atlanta, Ga., Publications South. Pecan South. June 1981. v. 8 (4). p. 24-26, 28-31. ill. 32 ref. (NAL Call No.: SB401.P4P4).

0539

### **Long-term performance of pecan trees when nitrogen application is based on prescribed threshold concentrations in leaf tissue.**

JOSHB. Worley, R.E. Alexandria, Va. : The Society. A threshold of 2.75% N was most practical for the low end of the sufficiency range when lower, thresholds of 2.25%, 2.50%, 2.75%, and 3.00% were tested on old 'Stuart' pecan *Carya illinoensis* (Wangenh.) C. Koch trees. Application of 224 kg N/ha annually reduced nut size when compared with application of 112 kg/ha made only when leaf N dropped below 2.25%, 2.50%, 2.75%, or 3.00%. Yield and tree growth were similar when 112 kg/ha-1 was

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applied only when leaf N dropped below 2.75% and when 224 kg.ha<sup>-1</sup> was applied annually. No N application was necessary to meet the 2.75% threshold for 3 of the 16 years. Journal of the American Society for Horticultural Science. Sept 1990. v. 115 (5). p. 745-749. Includes references. (NAL Call No.: DNAL 81 S012).

0540

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0541

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Hamilton, R.A. Yee, W.; Ito, P. Honolulu, The Service. Circular - Cooperative Extension Service, University of Hawaii. Mar 1980. Mar 1980. (485). 10 p. ill. (NAL Call No.: 275.29 H312AC).

0542

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Pope, Willis T. b. 1873. Washington, D.C. : U.S. Govt. Print. Off. , 1929. 23 p. : ill. ; 23 cm. Literature cited: p. 23. (NAL Call No.: DNAL 100 H313 (1) no.59).

0543

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MacLean, J. Beltsville : The Library. Quick bibliography series - National Agricultural Library. Dec 1982. Bibliography. Dec 1982. (83-12). 29 p. (NAL Call No.: aZ5071.N3).

0544

### Macro- and micro-grafting of filbert trees.

Lagerstedt, H.B. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 158-165. ill. Includes references. (NAL Call No.: 94.69 N81).

0545

### Managing filbert densities.

PNGOA. Riggert, C. McDonald, P. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1987. v. 72. p. 68-73. (NAL Call No.: DNAL 94.69 W52).

0546

### Maturing pecans in Ontario.

NONGA. Campbell, R.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1989. (80th). p. 35-36. (NAL Call No.: DNAL 94.69 N81).

0547

### Maximizing pecan production potential in Texas.

McEachern, G.R. College Station, Texas Pecan Growers Association. The Pecan quarterly. Aug 1981. Presented at the Western Irrigated Pecan Conference at Las Cruces, NM, Jan. 1981. v. 15 (3). p. 5-6, 8, 10. ill. (NAL Call No.: SB401.A1P4).

0548

### Mechanical grapevine (Harvesting and sorting of fruits and nuts).

Orlando, F.P. Wiederrich, J.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1552). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0549

### Mechanical thinning of pecan fruit.

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0550

### Media, fertilization affect containerized pecans.

PEQUA. O'Barr, R.D. Rachal, S.; Koonce, K.L.; Kowalczyk, J. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Nov 1985. v. 19 (6). p. 22-26. Includes 12 references. (NAL Call No.: DNAL SB401.A1P4).

0551

### Melrose, a new pecan cultivar (Carya illinoensis, yields, nut quality).

Young, W.A. Meadows, W.A. Baton Rouge, La., The Station. Circular. Louisiana. Agricultural Experiment Station. May 1979. May 1979. (108). 4 p. ill. (NAL Call No.: 100 L93 (2)).



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0552

**A method for converting forest stands to nut tree plantations in the Northeast.**  
NONGA. Davies, K.M. Jr. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 27-35. Includes references. (NAL Call No.: DNAL 94.69 N81).

0553

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Knox, C.A. Smith, R.H. College Station, Texas Pecan Growers Association. The Pecan quarterly. Aug 1981. v. 15 (3). p. 23-24. ill. 7 ref. (NAL Call No.: SB401.A1P4).

0554

**A method of estimating pecan yield (Carya illinoensis).**  
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0555

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NONGA. Starbuck, C.J. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 27-30. Includes references. (NAL Call No.: DNAL 94.69 N81).

0556

**Methods in fruit breeding / edited by James N. Moore and Jules Janick. -**  
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0557

**Micro-sprinklers and micro-sprayers: the positive and negative aspects.**  
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0558

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Anderson, W.C. Boulder : The Society. Combined proceedings - International Plant Propagators' Society. 1983 (pub. 1984). v. 33. p. 132-137. ill. Includes 7 references. (NAL Call No.: DNAL 451 P692).

0559

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Stefan, S.J. Millikan, D.F. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 26-29. Includes references. (NAL Call No.: 94.69 N81).

0560

**Mineral nutrition of pecan nursery trees in containers.**  
Acocck, M. Overcash, J.P. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 139-144. ill. Includes 11 ref. (NAL Call No.: 94.69 G29).

0561

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Krewer, G.W. Crocker, T.F.; Myers, S.C.; Bertrand, P.F.; Horton, D.L. Athens, Ga. : The Service. Bulletin - Cooperative Extension Service, University of Georgia, College of Agriculture. Jan 1990. (992). 19 p. ill. Includes references. (NAL Call No.: DNAL 275.29 G29B).

0562

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NONGA. Reighard, G.L. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1989. (80th). p. 20-24. Includes references. (NAL Call No.: DNAL 94.69 N81).

0563

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Loggins, C. College Station, Texas Pecan Growers Association. The Pecan quarterly. Feb 1982. v. 16 (1). p. 5-7, 9. ill. (NAL Call No.: SB401.A1P4).



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0564

**A Missouri case study of black walnut nut production.**

NONGA. Slusher, J.P. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 20-22. (NAL Call No.: DNAL 94.69 N81).

0565

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NONGA. Yoder, W.G. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 14-16. Includes references. (NAL Call No.: DNAL 94.69 N81).

0566

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0567

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Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Mar 1986. v. 49 (3). p. 3. ill. (NAL Call No.: DNAL 100 M69MI).

0568

**Musser fall ... wholesale planting listevergreen seedling and transplant.**

Musser Forests, Inc. Indiana, Pa. : Musser Forests, Inc.,. Description based on: 1975; title from verso of t.p. v. : ill. ; 28 cm. (NAL Call No.: DNAL SB115.Z9M871 R).

0569

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NONGA. Tubesing, C.E. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1989. (80th). p. 144-145. Includes references. (NAL Call No.: DNAL 94.69 N81).

0570

**Mycorrhizae of nut trees.**

NONGA. Miller, D.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 81-84. ill. (NAL Call No.: DNAL 94.69 N81).

0571

**Native groves (Pecans in Central Texas).**

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0572

**Native pecan orchard management.**

Shreve, L.W. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1986. v. 63. p. 11-13. (NAL Call No.: DNAL 94.69 T31).

0573

**Native pecans: Can we stay competitive?.**

NONGA. Reid, W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1989. (80th). p. 171-177. maps. Includes references. (NAL Call No.: DNAL 94.69 N81).

0574

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Gustafson, W.A. NONGA. Bish, C. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. 1982. (73rd). p. 125-126. (NAL Call No.: 94.69 N81).

0575

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Malstrom, H.L. Horst, G.; Kilby, M. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 38-39. (NAL Call No.: DNAL 94.69 T31).

0576

**Nets for harvesting nuts.**

NONGA. Grimo, E. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 7-8. (NAL Call No.: DNAL 94.69 N81).

0577

**A new device for hot-callusing graft unions (Fruit and nut trees).**

Lagerstedt, H.B. Alexandria, Va., American Society for Horticultural Science. HortScience. Aug 1981. v. 16 (4). p. 529-530. ill. 1 ref. (NAL Call No.: SB1.H6).

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0578

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0579

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0665

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PEQUA. Malstrom, H.L. Bryan : Texas Pecan Growers Association. The pecan quarterly. Feb/Apr 1984. v. 18 (1). p. 4, 6-13. ill. Includes 20 references. (NAL Call No.: DNAL SB401.A1P4).

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Goff, B. McVay, J.R. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 26-28. (NAL Call No.: DNAL 94.69 T31).

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JDSHB. Wood, B.W. Alexandria, Va. : The Society. The problematic alternate-bearing characteristic of pecan *Carya illinoensis* (Wangenh). C. Koch has prompted an investigation of the role of rootstock and carbohydrate concentrations in tree organs in relation to nut production. Six years of data on the influence of open-pollinated pecan rootstocks on in-shell nut production by 80-year-old trees of 'Stuart' of 'Schley' scion cultivars provide evidence that rootstocks may influence yield, yield efficiency, and alternate bearing and that yield is closely associated with January root starch concentrations. Several "superior" trees, possessing greater-than-average nut yields and less-than-average alternate-bearing intensity, were identified as candidates for improved pecan rootstocks, indicating a projected frequency of approximately 5% for the occurrence of superior rootstocks. Journal of the American Society for Horticultural Science. Mar 1989. v. 114 (2). p. 223-228. Includes references. (NAL Call No.: DNAL 81 S012).

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0691

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0704

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0713

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0715

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0716

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0722

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0725

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0726

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NONGA. Campbell, R.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 35-36. (NAL Call No.: DNAL 94.69 N81).

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NONGA. Reid, W. Olcott-Reid, B. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 77-83. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

0730

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Madden, G.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 54-56. Includes references. (NAL Call No.: DNAL 94.69 T31).

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0732

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Lazarte, J.E. Chicago, Ill. : American Nurseryman Publishing Co. American nurseryman. June 1, 1984. v. 159 (11). p. 79-80, 82. ill. Includes references. (NAL Call No.: 80 AM371).

0733

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Holden, V.L. Boulder : The Society. Combined proceedings - International Plant Propagators' Society. 1983 (pub. 1984). v. 33. p. 51-52. Includes 3 references. (NAL Call No.: DNAL 451 P692).

0734

### **Propagation of hazelnut (*Corylus avellana*) by cuttings and grafting (Hot-callusing).**

Thomson, G.E. Boulder, Colo. : International Plant Propagators' Society. The Plant propagator. Sept 1984. v. 30 (3). p. 11-14. ill. Includes references. (NAL Call No.: 81 P692).

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0736

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Nelson, K.L. NONGA. Gustafson, W.A. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. 1982. (73rd). p. 134-137. Includes references. (NAL Call No.: 94.69 N81).

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0737

**Proper pruning promotes higher yields (Almonds).**

Lee, D. Sacramento, California Almond Growers Exchange. Almond facts. Sept/Oct 1979. v. 44 (4). p. 37-40. ill. (NAL Call No.: 280.28 AL62).

0738

**Proper training is important (Pruning, pecan trees).**

Romberg, L.D. AR-SO. College Station, Texas Pecan Growers Association. The pecan quarterly. Nov 1979. v. 13 (4). p. 20. (NAL Call No.: SB401.A1P4).

0739

**Prune your pecans! (Carya illinoensis).**

Willoughby, Ohio : Meister Publishing Company. American fruit grower. Aug 1984. v. 104 (8). p. 8. ill. (NAL Call No.: 80 G85).

0740

**Pruning and training: a grower's experience (Pecan orchard).**

Walden, R.S. (California) : Cooperative Extension, University of California, Tulare County, 1980. Proceedings : California 1980 Pecan Growers Conference, July 1, 1980, Visalia, California. p. 22-24. ill. (NAL Call No.: SB401.P4C32 1980).

0741

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Malstrom, H. (California) : Cooperative Extension, University of California, Tulare County, 1980. Proceedings : California 1980 Pecan Growers Conference, July 1, 1980, Visalia, California. p. 12-21. ill. Includes 6 ref. (NAL Call No.: SB401.P4C32 1980).

0742

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0743

**Pruning hints for almond growers (Nut trees).**

Connell, J. Sacramento, California Almond Growers Exchange. Almond facts. Sept/Oct 1981. v. 46 (5). p. 65-67. ill. (NAL Call No.: 280.28 AL62).

0744

**Pruning nut trees for production.**

Storey, J.B. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 235-237. (NAL Call No.: 94.69 N81).

0745

**Pruning walnut trees for profit Cooperative Extension Service ; produced in cooperation with the Nebraska Forest Service ; producer, director, Sandra Cowley ; with Dennis Adams. Adams, Dennis. Lincoln, Neb. : Cooperative Extension Service, Institute of Agriculture and Natural Resources, University of Nebraska, 1987? . Title on container: Pruning black walnut trees for profit. 1 videocassette (VHS) (41 min.) : sd., col. ; 1/2 in. (NAL Call No.: DNAL Videocassette no.508).**

0746

**Pulling pecan trees from the nursery row.**

Worthington, J.W. Wood, L.T. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 59-63. ill. Includes references. (NAL Call No.: DNAL 94.69 T31).

0747

**Quality plants /Texas Pecan Nursery, Inc.**

Texas Pecan Nursery. Chandler, Tex. : The Nursery,. Description based on: 1980; title from cover. v. : col. ill. ; 28 cm. (NAL Call No.: DNAL SB115.Z9T491 R).

0748

**A quick method of estimating chill hours (Deciduous fruit and nut trees, inducing dormancy and fruit shoot development, California).**

Costello, L.R. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Mar/Apr 1984. v. 38 (3/4). p. 22-24. maps. (NAL Call No.: 100 C12CAG).



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0749

### **Raising Chinese chestnuts in Pennsylvania.**

NONGA. Kohr, C. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 54-57. (NAL Call No.: DNAL 94.69 N81).

0750

### **Rapid honeybee colony strength evaluation with cluster size measurements.**

ALMFA. Throp, R.W. Briggs, D.L. Sacramento, Calif. : California Almond Growers Exchange. Almond facts. Sept/Oct 1986. v. 51 (5). p. 30-31. ill. (NAL Call No.: DNAL 280.28 AL62).

0751

### **Rejuvenation of a mature pecan orchard by dehorning and subsequent chemical applications (Florida).**

Arnold, C.E. Crocker, T.E.; Aldrich, J.H. College Station, Texas Pecan Growers Association. The Pecan quarterly. Aug 1981. v. 15 (3). p. 11, 13-15, 18. ill. 4 ref. (NAL Call No.: SB401.A1P4).

0752

### **Relationship between catkin development and cropping in pecan.**

Matta, F.B. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Meeting held in March, 1987, Savannah, Georgia. Mar 1987. (80th). p. 27-31. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

0753

### **Relationship between catkin development and cropping in the Persian walnut 'Serr'.**

HJHSA. Ryugo, K. Bartolini, G.; Carlson, R.M.; Ramos, D.E. Alexandria, Va. : American Society for Horticultural Science. HortScience. Dec 1985. v. 20 (6). p. 1094-1096. ill. Includes references. (NAL Call No.: DNAL SB1.H6).

0754

### **Relative importance of rising energy costs on pecan (*Carya illinoensis*) production costs in Georgia vs. Arizona.**

Epperson, J.E. Allison, J.R. Alexandria, Va., American Society for Horticultural Science. HortScience. Dec 1979. v. 14 (6). p. 716-718. ill. 9 ref. (NAL Call No.: SB1.H6).

0755

### **Report of the Cornell Tree Crops Research Project (New York, walnuts, chestnuts, oaks, mulberry).**

Caldwell, B. NONGA. Ward, L.; Davies, K. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. 1982. (73rd). p. 50-57. (NAL Call No.: 94.69 N81).

0756

### **Report on hickory nuts from western Pennsylvania for 1982.**

Thatcher, C.A. NONGA. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. 1982. (73rd). p. 45-47. (NAL Call No.: 94.69 N81).

0757

### **Research with pecan nursery trees in containers and orchards.**

Overcash, J.P. Acock, M.; Bostian, D.B.; Sloan, R.C. Mississippi State, Miss. : The Station. MAFES research highlights - Mississippi Agricultural & Forestry Experiment Station. Sept 1984. v. 47 (9). p. 1-8. ill. Includes 15 references. (NAL Call No.: DNAL 100 M69MI).

0758

### **Research with pecan nursery trees in containers and orchards (*Carya illinoensis*, cultivars, seedlings, commercial production and transplanting methods, Mississippi).**

Overcash, J.P. Acock, M.; Bostian, D.B.; Sloan, R.C. Mississippi State, Miss. : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Oct 1983. Oct 1983. (922). 10 p. ill. Includes references. (NAL Call No.: S79.E3).

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## (PLANT BREEDING)

0929

### **Pecan production.**

Goff, W.D. Patterson, M.G.; McVay, J.R. Auburn, Ala. : The Service. Circular ANR - Alabama Cooperative Extension Service, Auburn University. July 1988. (54). 24 p. ill. (NAL Call No.: ONAL S544.3.A2C47).

0930

### **Pecan production.**

Goff, W.D. Patterson, M.G.; McVay, J.R. Auburn, Ala. : The Service. Circular ANR - Cooperative Extension Service, Auburn University. Aug 1987. (54). 22 p. ill. (NAL Call No.: DNAL S544.3.A2C47).

0931

### **Pecan production practices in Alabama.**

Goff, B. McVay, J.R. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 26-28. (NAL Call No.: DNAL 94.69 T31).

0932

### **Pecan rootstock research.**

Grauke, L.J. Pratt, J.W. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 123-130. Includes references. (NAL Call No.: DNAL 94.69 G29).

0933

### **Pecan rootstocks.**

Hanna, J.D. New York : Wiley, 1987. Rootstocks for fruit crops / edited by Roy C. Rom, Robert F. Carlson. p. 401-410. ill. Includes references. (NAL Call No.: ONAL SB359.45.R6).

0934

### **Pecan tree named 'James Early' variety.**

James, G.W. James, G.W. II. Washington, D.C. : The Office. A new and distinct variety of northern pecan tree (i.e., *Carya illinoensis*) is provided which can be distinguished from previously known pecan varieties by the extremely early maturity date of its pecan harvest. This permits the successful growing of a pecan crop at more northerly locations than has heretofore been possible, and facilitates an earlier pecan harvest at existing pecan production regions of the north. The new variety forms on a regular basis quality kernels which release well from the shells. The tree exhibits a sturdy upright and spreading growth habit as well as excellent hardiness. Plant patent - United States Patent and

Trademark Office. Jan 15, 1991. (7419). 2 p. plates. (NAL Call No.: ONAL 156.65 P69).

0935

### **Pecan tree named McLeon.**

McDowell, G. Washington, D.C. : The Office. Abstract: p. 1. A new and distinct variety of pecan tree distinguished by its resistance to cold weather and its ability to produce a high yield nut crop farther north, i.e. as far north as Nevada, Mo., and more consistently than any southern variety, the fruit ripening in midseason all at the same time and being exceptionally easy to harvest. This new pecan tree is resistant to pecan weevils and scab disease prevalent in other varieties in the same orchard, and because of its open center growth with widely branching limbs, there is good air circulation between the leaves which materially reduces the incidents of mildew or fungus diseases. The growth rate of this tree is unusually rapid with nut production occurring four years after being grafted. The nuts generally run about fifty-five to the pound and the cracking percentage in approximately fifty-five to sixty percent. United States patent. Plant - United States Patent and Trademark Office. Mar 24, 1987. (5911). 2 p. plates. (NAL Call No.: DNAL 156.65 P69).

0936

### **Pecan varieties for Oklahoma.**

Taylor, G. Stillwater : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Apr 1983. Apr 1983. (6201). 4 p. maps. (NAL Call No.: S544.3.0505).

0937

### **Pecan varieties for Texas.**

McEachern, G.R. Hancock, B.G. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 18-19. (NAL Call No.: ONAL 94.69 T31).

0938

### **Pecan varieties for Texas.**

Menge, T. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1986. v. 63. p. 6-8. (NAL Call No.: DNAL 94.69 T31).



0939

**Pecan varieties for western U.S. and production potential: a research viewpoint.**

Madden, G. (California) : Cooperative Extension, University of California, Tulare County, 1980. Proceedings : California 1980 Pecan Growers Conference, July 1, 1980, Visalia, California. p. 42-44. (NAL Call No.: SB401.P4C32 1980).

0940

**Pecan varieties suitable for southwest Missouri.**

NONGA, McDowell, G. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 18-19. (NAL Call No.: DNAL 94.69 N81).

0941

**Pecan variety performance in East Texas.**

Huddleston, G. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 14-16, 1980, Abilene, Texas. 1981. v. 59. p. 46. ill. (NAL Call No.: DNAL 94.69 T31).

0942

**Pecan variety performance in the Mississippi Delta.**

Calcote, V.R. Scott, W.P. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. 1988. (81st). p. 83-95. Includes references. (NAL Call No.: DNAL 94.69 G29).

0943

**Pecan weevil preference for various pecan cultivars.**

JEENAI. Calcote, V.R. Hyder, D.E. Lanham, Md. : Entomological Society of America. The very early maturing pecan cultivar Johnson was damaged significantly less than were later maturing cultivars by *Curculio caryae* (Horn) in studies made in 1978 and 1979. In a different test in 1976, the cultivar 48-15-3 was the only one of 39 cultivars tested that escaped damage. Both of these cultivars mature extremely early; thus, although the possibility of discovering immunity to the pecan weevil is negligible, resistance through host evasion by asynchrony is possible. *Journal of economic entomology*. Apr 15, 1981. v. 74 (2). p. 223-226. Includes references. (NAL Call No.: DNAL 421 J822).

0944

**Pecans which fill in the north.**

NONGA, Campbell, R.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 116-118. (NAL Call No.: DNAL 94.69 N81).

0945

**Performance of pecan varieties commonly found in older orchards in the Southeast: a survey of grower experiences.**

Goff, B. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 137-145. (NAL Call No.: DNAL 94.69 G29).

0946

**Performance of pecans in the North.**

NONGA, Campbell, R.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 104-107. (NAL Call No.: DNAL 94.69 N81).

0947

**Persian walnut primer.**

Reid, W. Olcott-Reid, B. Emmaus, Pa. : Rodale Press. Rodale's organic gardening. Nov 1986. v. 33 (11). p. 60-65. ill. (NAL Call No.: DNAL S605.5.R64).

0948

**Pistachio tree.**

Anderson, H.P. III. Puryear, K.L. Washington, D.C. : The Office. Abstract: A new and distinct variety of pistachio tree (identified as PN-83-F) characterized by a mature tree of rounded upright shape, having several main branches; rapid growth, abundant, leathery foliage, ease of propagation by budding or grafting; and further characterized by the abundant production of female flowers, in clusters, followed by seeds which are especially desirable for planting (when pollenized by the male variety, identified as PN-46-M), said hybrid seeds producing a fast growing, disease resistant tree of value for use as understock upon which to bud or graft commercial nut bearing varieties of pistachio such as 'Kerman'. United States patent. Plant - United States Patent and Trademark Office. Dec 23, 1986. (5837). 2 p. plates. (NAL Call No.: DNAL 156.65 P69).

## (PLANT BREEDING)

0949

**Pistachio tree (Variety PN-46-M, rounded spreading growth habit, pleasing green color of mature foliage, production of male flowers and pollen, used as understock upon which to bud or graft commercial nut bearing varieties).**

Anderson, H.P. Puryear, K.L. Washington : The Office. United States patent. Plant - United States Patent and Trademark Office. Mar 15, 1983. Mar 15, 1983. (4994). 2 p. plates. (NAL Call No.: 156.65 P69).

0950

**Plant size and number affect genetic analysis and the improvement of fruit and nut tree cultivars.**

HJHSA. Hansche, P.E. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1990. v. 25 (4). p. 389-393. Includes references. (NAL Call No.: DNAL SB1.H6).

0951

**Pollinizer management in a hazelnut orchard.**

PNGOA. Mehlenbacher, S.A. Miller, A.N. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. Meeting held on January 27, 1988, Portland, Oregon. 1988. (73rd). p. 67-71, 73-75, 77-78, 80-81. Includes references. (NAL Call No.: DNAL 94.69 W52).

0952

**Possibility of escaping pecan weevil damage through early maturing cultivars.**

Calcote, V.R. Hyder, D.E. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 14-16, 1980, Abilene, Texas. 1981. v. 59. p. 55-60. ill. Includes references. (NAL Call No.: DNAL 94.69 T31).

0953

**A preliminary comparison of pecan pollination techniques.**

Windham, G. Graves, C.H. Jr.; Thompson, T.E. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 85-89. ill. 9 ref. (NAL Call No.: 94.69 G29).

0954

**Productivity and quality of selected pecan cultivars and USDA selection.**

Wood, B.W. Hunter, R.E.; McMeans, J.L. Atlanta, Ga., Publications South. Pecan South. Nov 1980. v. 7 (6). p. 42-43, 46. ill. 7 ref. (NAL Call No.: SB401.P4P4).

0955

**Productivity and quality of selected pecan cultivars and USDA selections.**

Wood, B.W. Hunter, R.E.; McMeans, J.L. Atlanta, Ga., Publications South. Pecan South. Jan 1981. v. 8 (1). p. 30-32. ill. 7 ref. (NAL Call No.: SB401.P4P4).

0956

**Progress report on pecan seedling rootstock investigations, 1971-1978, at Brownwood, Texas.**

Madden, G.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 54-56. Includes references. (NAL Call No.: DNAL 94.69 T31).

0957

**Propagating and growing chestnuts.**

NONGA. Bazzigher, G. Lawrenz, K.P.; Ritter, F. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. Report on 20 years research at the Institute. 1984. (75th). p. 119-137. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

0958

**Propagating pecan rootstock by tissue culture (Carya illinoensis, in vitro rooting).**

Lazarte, J.E. Chicago, Ill. : American Nurseryman Publishing Co. American nurseryman. June 1, 1984. v. 159 (11). p. 79-80, 82. ill. Includes references. (NAL Call No.: 80 AM371).

0959

**Release, dispersal, and recovery of a laboratory-selected strain of the walnut aphid parasite Trioxys pallidus (Hymenoptera: Aphididae) resistant to azinphosmethyl.**

JEENAI. Hoy, M.A. Cave, F.E.; Beede, R.H.; Grant, J.; Krueger, W.H.; Olson, W.H.; Spollen, K.M.; Barnett, W.W.; Hendricks, L.C. Lanham, Md. : Entomological Society of America. A strain of Trioxys pallidus Haliday, selected in the laboratory for resistance to azinphosmethyl, was mass reared and released into five commercial walnut blocks in California to determine whether the strain could survive field applications of azinphosmethyl or methidathion, persist, and parasitize the walnut aphid, Chromaphis juglandicola Kaltenbach. Approximately 75,000 parasites were reared on potted walnut trees in a University of California greenhouse in Berkeley; releases were made after azinphosmethyl applications in three sites, after methidathion application in one site, and just before a methidathion application in one site. Colonies of T. pallidus collected from each orchard before the releases were tested



with a discriminating dose of azinphosmethyl to estimate resistance levels of the wild population. Samples of *T. pallidus* were collected once or twice from each block after releases were made and from adjacent walnut blocks in two sites. The samples were then tested with azinphosmethyl. The high survival rates of the parasites indicated that the strain of *T. pallidus* resistant to azinphosmethyl established and persisted through the growing season in four of the five walnut blocks and dispersed to nearby nonrelease blocks in two of two sites sampled. Counts of aphids and mummies support the conclusion that the laboratory-selected strain survived applications of azinphosmethyl or methidathion, parasitized aphids, and persisted within the release and nearby nonrelease sites during the 1988 growing season. *Journal of economic entomology*. Feb 1990. v. 83 (1). p. 89-96. Includes references. (NAL Call No.: DNAL 421 J822).

0960

**Research priorities in genetic improvement of Persian walnuts and their rootstocks.**

NONGA. McGranahan, G.H. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 73-77. Includes references. (NAL Call No.: DNAL 94.69 N81).

0961

**'Schley' vs. 'Stuart': 'Schley' sustains more tornado damage.**

PEQUA. Sparks, D. Payne, J.A. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Nov 1985. v. 19 (6). p. 10, 12, 31. (NAL Call No.: DNAL SB401.A1P4).

0962

**Selecting Carpathian walnuts (*Juglans regia* L.) for cold hardiness.**

NONGA. Domoto, P.A. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. Includes report for work from 1971-1986. 1986. (77th). p. 21-26. Includes references. (NAL Call No.: DNAL 94.69 N81).

0963

**The Stuart pecan.**

NONGA. Sparks, D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 62-66. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

0964

**Studies of pecan cultivar adaptation for high-density plantings in Louisiana (*Carya illinoensis*).**

Young, W.A. Meadows, W.A.; Constantin, R.J.; Sanderlin, R. Starkville, Miss.: The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 193-197. (NAL Call No.: 94.69 G29).

0965

**Study evaluates performance of promising USDA cultivars in South Louisiana environs.**

PEQUA. Boudreaux, J.E. Young, W.A.; Meadows, W.A.; Lartigue, M.G.; Leger, L.P.; Marroy, J.P.; Cox, J.A.; Sanderlin, R.S. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Mar 1985. v. 19 (2). p. 9-12. Includes references. (NAL Call No.: DNAL SB401.A1P4).

0966

**'Sullivan'--a new pecan that matures early.**

NONGA. Herrera, E. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 64-65. ill. (NAL Call No.: DNAL 94.69 N81).

0967

**A survey of juglone levels among walnuts and hickories (*Juglans nigra*, *Carya ovata*, breeding for resistance, fungitoxic and allelopathic constituent, resistance to scab, *Cladosporium caryigenum*).**

Borazjani, A. PEQUA. Graves, C.H. Jr.; Hedin, P.A. Bryan : Texas Pecan Growers Association. The pecan quarterly. Feb 1983. v. 17 (1). p. 9-13. ill. Includes references. (NAL Call No.: SB401.A1P4).

0968

**A tough nut to crack.**

Pleasanton, Calif. : Sun-Diamond Growers of California. Sun-diamond grower. Summer 1988. v. 7 (2). p. 38-39, 46. (NAL Call No.: DNAL SB401.A1D5).

0969

**Toxicity of pesticides used on walnuts to a wild and azinphosmethyl-resistant strain of *Trioxys pallidus* (Hymenoptera: Aphididae).**

JEENAI. Hoy, M.A. Cave, F.E. Lanham, Md. : Entomological Society of America. Effects of azinphosmethyl, chlorpyrifos, endosulfan, methidathion, or phosalone on a wild and a laboratory-selected strain of *Trioxys pallidus* Haliday were tested. A clip cage was used to



## (PLANT BREEDING)

confine insects on walnut foliage treated in the field. Mortality of adults was assessed after 4, 8, 18, 24, 48, and 72 h at 27 +/- 1.5 degrees C. Residues ranged from 1 to 35-d-old. One-day-old residues of chlorpyrifos were the most toxic to the wild colony; 1-d-old residues of azinphosmethyl, methidathion, phosalone, and endosulfan were progressively less toxic. Azinphosmethyl residues remained more toxic to both colonies for the longest time of any of the pesticides tested. Methidathion residues were toxic to the wild colony after 28 d (survival at 72 h, 56%), but survival of the Selected strain on 14-d-old residues was 94% even after 72 h of exposure. Residues of phosalone and endosulfan exhibited low toxicity (survival greater than 86%) to both strains after 14 d. The azinphosmethyl-selected strain of *T. pallidus* survived all pesticide residues significantly better than the wild strain (except the 14-d-old endosulfan residues, on which both survived equally well), indicating that cross-resistances developed through artificial selection with azinphosmethyl. Implications of the new azinphosmethyl-resistant strain of *T. pallidus* for walnut pest management and orchard management are discussed. *Journal of economic entomology*. Dec 1989. v. 82 (6). p. 1585-1592. Includes references. (NAL Call No.: DNAL 421 J822).

0970

### Use of the walnut cleft graft to produce walnut trees for Nebraska plantings.

Groenwold, M.R. NONGA. Hamden : The Association. Annual report - Northern Nut Growers Association. 1981. 1981. (72nd). p. 62-67. ill. Includes references. (NAL Call No.: 94.69 N81).

0971

### Walnut husk fly (Diptera: Tephritidae): evaluation of traps for timing of control measures and for damage predictions.

JEENAI. Riedl, H. Barnett, W.W.; Coates, W.W.; Coviello, R.; Joos, J.; Olson, W.H. Lanham, Md. : Entomological Society of America. In 2 yr of field test in commercial walnut, *Juglans regia* L., orchards in northern California, an ammonium carbonate-baited fluorescent yellow Pherocon AM rectangle was approximately 10 times more attractive to adult walnut husk flies, *Rhagoletis completa* Cresson, than the standard Pherocon AM trap or an unbaited green sphere during most of the season. The green sphere was not attractive in early season when husk flies began to emerge but increased in attractiveness relative to the other traps as the season progressed. Once the sphere began to catch husk flies, it was as effective as the standard Pherocon AM trap. Adult flies began to respond to ammonium carbonate-baited and standard AM traps long before (42 and 44 d, respectively) females oviposited. Catches on green sphere traps, on the other hand, were closely synchronized with egg laying, becoming attractive shortly before or at the time nuts were attacked. The interval from first

oviposition to harvest was the same on early- and late-maturing varieties. Cumulative catch on the ammonium carbonate-baited Pherocon AM trap was a better predictor for the infestation level at harvest than catches on the green sphere. These studies suggest that the green sphere is a better indicator for the timing of chemical treatments, whereas the ammonium carbonate-baited yellow rectangle appears to be more reliable for evaluating the damage potential of a husk fly population. *Journal of economic entomology*. Aug 1989. v. 82 (4). p. 1191-1196. Includes references. (NAL Call No.: DNAL 421 J822).

0972

### Walnut varieties.

Merrill, B. Pleasanton, Calif. : Sun-Diamond Growers of California. Sun-diamond grower. Spring 1987. v. 6 (1). p. 30-31. (NAL Call No.: DNAL SB401.A1D5).

0973

### Walnuts (*Juglans*, for the nuts and timber).

Ramos, D. McGranahan, G.; Hendricks, L. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 129-137. Includes references. (NAL Call No.: 94.69 N81).

0974

### Willamette chestnut.

Wallace, R.D. Washington, D.C. : The Office. A medium size hybrid chestnut tree, having an upright and widely spreading form and glossy dark green foliage with prolific, sweet scented flowers appearing after leaf out in spring; the tree being a regular and very productive bearer of extremely large, chocolate brown, very sweet and easy-to-peel nuts, the nuts ripening and falling free from the burrs in mid-September; the tree also displaying a high genetic resistance to the chestnut bark blight (*Endothia parasitica*), being bred from the same line of hybrid chestnut trees as the Revival Chestnut (U.S. Plant Pat. No. 5,537), the Heritage Chestnut (U.S. Plant Pat. No. 6,574), and the Carolina Chestnut (U.S. Plant Pat. No. 7,041), the present variety itself not showing any instance of blight infection in 12 years of growth in the orchard. Plant patent - United States Patent and Trademark Office. Mar 13, 1990. (7195). 2 p. plates. (NAL Call No.: DNAL 156.65 P69).

0975

### Working with hickory and pecan.

NONGA. Totten, B. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 17-20. (NAL Call No.: DNAL 94.69 N81).

0976

**1979 comparison of walnut (Juglans) varieties  
(California trials).**

Ramos, D. Iwakiri, B.; Snyder, R.; Forde, H.  
Stockton, Ca., Diamond/Sunsweet Inc.  
Diamond/Sunsweet news. Apr/Sept 1980. v. 2 (4).  
p. 20-21, 24, 25. (NAL Call No.: SB401.A1D5).

# PLANT ECOLOGY

0977

**Allelopathi effects of butternut and black walnut seedlings on tomatoes.**

DePalma, N.K. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 123-129. Includes references. (NAL Call No.: 94.69 N81).

0978

**The pecan orchard as a riparian ecosystem.**

Kingsley, K.J. Fort Collins, Colo. : The Station. General technical report RM - Rocky Mountain Forest and Range Experiment Station, United States, Forest Service. Paper presented at the "Conference on Riparian Ecosystems and their Management: Reconciling Conflicting Uses," April 16-18, 1985, Tucson, Arizona. 1985. (120). p. 245-249. Includes references. (NAL Call No.: DNAL aSD11.A42).

0979

**Zonal selection of nut trees for absolute hardiness (North America).**

Domoto, P.A. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1979. 1979. (70th). p. 46-51. maps. Includes 12 ref. (NAL Call No.: 94.69 N81).



# PLANT STRUCTURE

0980

**Cacao beans and cola nuts.**

Steffy, J. Alexandria, Va. : The American Horticultural Society. American horticulturist. Feb 1987. v. 66 (2). p. 30, 32-33. (NAL Call No.: DNAL 80 N216).

0981

**'Schley' vs. 'Stuart': 'Schley' sustains more tornado damage.**

PEQUA. Sparks, D. Payne, J.A. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Nov 1985. v. 19 (6). p. 10, 12, 31. (NAL Call No.: DNAL SB401.A1P4).

# PLANT NUTRITION

0982

## **Acidification of calcareous soils improves zinc absorption of pecan trees.**

JOSHB. Fenn, L.B. Malstrom, H.L.; Riley, T.; Horst, G.L. Alexandria, Va. : The Society. Acidification of < 1% of the effective root zone of a mature pecan tree (*Carya illinoensis* (Wanghenh.) C. Koch) significantly increased uptake of Zn into the tree and maintained elevated Zn in leaves for 9 years. Sulfuric acid and ZnSO<sub>4</sub>, applied in a shallow trench, lowered soil pH to a depth of 60 cm and increased solubility of Zn in the acid band. Large concentrations of CaSO<sub>4</sub> were formed. Laboratory tests confirmed the movement and solubility of Zn in soils under conditions similar to those in the field. Tree roots did not grow into the acidified band, presumably due to high salinity, but proliferated extensively at the interface of the acidified band and calcareous soil. Journal of the American Society for Horticultural Science. Sept 1990. v. 115 (5). p. 741-744. ill. Includes references. (NAL Call No.: DNAL 81 S012).

0983

## **Asian nut pine nursery problems (Korean nut pine (*Pinus koraiensis*), Siberian nut pine (*Pinus sibirica*)).**

Larsson, H.C. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. 1980. (71st). p. 77-80. (NAL Call No.: 94.69 N81).

0984

## **Boron partitioning in B-sprayed and unsprayed fruiting twigs of hazelnut.**

CSOSA2. Shrestha, G.K. Thompson, M.M.; Righetti, T.L. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Oct 1986. v. 17 (10). p. 1033-1040. Includes references. (NAL Call No.: DNAL S590.C63).

0985

## **Can we reduce the area covered by nitrogen application?.**

Worley, R.E. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 171-174. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

0986

## **A comparison of zinc injection and zinc implantation for rapid correction of zinc deficiency (Pesticide injection, pecan orchards).**

Worley, R.E. Littrell, R.H.; Dutcher, J.D. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 69-71. 5 ref. (NAL Call No.: 94.69 G29).

0987

## **Effect of broadcast ann band application on zinc uptake by pecan trees (Rosette deficiency).**

Payne, J.A. Sparks, D. Atlanta, Ga., Publications South. Pecan South. Jan 1982. v. 9 (1). p. 35-37. ill. Includes 10 ref. (NAL Call No.: SB401.P4P4).

0988

## **The effect of foliar applied sulfur on pecan production (*Carya illinoensis*).**

Bertrand, P.F. Littrell, R.H.; Gottwald, T.R. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 187-191. 4 ref. (NAL Call No.: 94.69 G29).

0989

## **Effect of magnesium sprays on magnesium-deficient pecan trees.**

Worley, R.E. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 131-134. Includes 8 ref. (NAL Call No.: 94.69 G29).

0990

## **Effect of nitrogen and potassium on yield, growth, and leaf elemental concentration of pecan.**

JOSHB. Smith, M.W. Ager, P.L.; Endicott, D.S.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1985. v. 110 (3). p. 446-450. Includes 20 references. (NAL Call No.: DNAL 81 S012).

0991

## **Foliar applications of K<sub>2</sub>SO<sub>4</sub>, KN<sub>3</sub>, urea, and NH<sub>4</sub>NO<sub>3</sub> on pecan seedlings.**

HJHSA. Diver, S.G. Smith, M.W.; McNew, R.W. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1985. v. 20 (3,sectionI). p. 422-425. ill. Includes 21 references. (NAL Call No.: DNAL SB1.H6).

0992

**Foliar-applied boron increases fruit set in 'Barcelona' hazelnut.**

JDSHB. Shrestha, G.K. Thompson, M.M.; Righetti, T.L. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1987. v. 112 (3). p. 412-416. Includes references. (NAL Call No.: DNAL 81 SD12).

0993

**Growth and nutritional status of pecan in response to phosphorus.**

JDSHB. Sparks, D. Alexandria, Va. : The Society. Effects of applied P on pecan *Carya illinoensis* (Wangenh.) C. Koch were studied in the greenhouse and field. Objectives were to study P effects on vegetative and nut growth, leaf scorch and/or premature defoliation, and nutrition. Elements were analyzed for both total and extractable (2% acetic acid) fractions. In the greenhouse, deficiency symptoms occurred when leaf P (dry-weight basis) was 0.08%; vegetative growth was maximum when P was 0.019% to 0.22%. In the field, applied P increased nut growth and decreased leaf scorch and premature defoliation. Leaf P values for maximum nut growth and minimum leaf scorch and/or defoliation are greater than 0.14% and 0.16%, respectively. Except when P was within the visible deficiency range, applied P had little direct influence on the concentration of other essential elements under either greenhouse or field conditions. Generally, extractable P was a slightly better indicator of the P status of the tree than total P, but the differences are of doubtful physiological significance. Journal of the American Society for Horticultural Science. Nov 1988. v. 113 (6). p. 850-859. Includes references. (NAL Call No.: DNAL 81 SD12).

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**The influence of soil aeration on growth and elemental absorption of greenhouse-grown seedling pecan tress.**

CSDSA2. Smith, M.W. Wazir, F.K.; Akers, S.W. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Feb 1989. v. 71 (3/4). p. 335-344. Includes references. (NAL Call No.: DNAL S590.C63).

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**Irrigation as an integral management tool in pecans (for applying nutrients and pesticides).**

Aitken, J.B. Camp, C.R. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 59-65. ill. Includes references. (NAL Call No.: 94.69 G29).

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**Mineral nutrition of pecan nursery trees in containers.**

Acocck, M. Dvercash, J.P. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 139-144. ill. Includes 11 ref. (NAL Call No.: 94.69 G29).

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**Mycorrhizae of nut trees.**

NDNGA. Miller, D.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 81-84. ill. (NAL Call No.: DNAL 94.69 N81).

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**Nitrogen effects on pecan yield and nut growth--a reappraisal.**

NDNGA. Sparks, D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 187-192. Includes references. (NAL Call No.: DNAL 94.69 N81).

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**Nutritional and growth responses of pecan seedlings from magnesium sprays.**

NDNGA. Sparks, D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 31-36. Includes references. (NAL Call No.: DNAL 94.69 N81).

1000

**Potassium nutrition of pecans.**

Sparks, D. Madison, Wis. : American Society of Agronomy, 1985. Potassium in agriculture / Robert D. Munson, editor. Paper presented at an international symposium, 7-10 July 1985, Atlanta, Georgia.~ Literature review. p. 1135-1153. Includes references. (NAL Call No.: DNAL S587.5.P6P68).

1001

**Results of fertilizer studies on 'sumner' and 'cape fear' pecans on a providence soil (Typic Fraguidalf).**

Boudreaux, J.E. Jones, L.G.; Young, W.A.; Peterson, F.J.; Lartigue, M.G.; Cunningham, R.L.; Kahlich, C.G. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 113-121. Includes references. (NAL Call No.: DNAL 94.69 G29).



## (PLANT NUTRITION)

1002

**Trunk injections may offer solution for small plantings.**

PEQUA, Worley, R.E. Littrell, R.H.; Dutcher, J.D. Bryan : Texas Pecan Growers Association. The pecan quarterly. May/July 1984. v. 18 (2). p. 18-21. Includes 15 references. (NAL Call No.: DNAL SB401.A1P4).

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**Use of irrigation applied nutrients in pecan production.**

Atiken, J.B. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1986. (79th). p. 99-103. Includes references. (NAL Call No.: DNAL 94.69 G29).

1004

**Use of leaf analysis for basing N application for Stuart pecans.**

Worley, R.E. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 79-83. Includes references. (NAL Call No.: DNAL 94.69 G29).

1005

**Use of nitrogen isotopes and a light-textured soil to assess annual contributions of nitrogen from soil and storage pools in mature almond trees.**

JOSHB, Weinbaum, S.A. Klein, I.; Muraoka, T.T. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1987. v. 112 (3). p. 526-529. Includes references. (NAL Call No.: DNAL 81 S012).

1006

**Zinc: how many alternatives are there and which ones work?.**

Stockton, A. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 8-9. Includes references. (NAL Call No.: DNAL 94.69 T31).

1007

**Zinc in almonds (Auxins, deficiency control).**

Viveros, M. Sacramento, California Almond Growers Exchange. Almond facts. Sept/Oct 1981. v. 46 (5). p. 46-47. ill. (NAL Call No.: 280.28 AL62).

# PLANT PHYSIOLOGY AND BIOCHEMISTRY

1008

## **Abortion of fruit, flowers linked to three stages.**

PEQUA. Sparks, D. Madden, G.D. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. May 1985. v. 19 (3). p. 14, 16-19, 26, 27. Includes references. (NAL Call No.: DNAL SB401.A1P4).

1009

## **Allelopathi effects of butternut and black walnut seedlings on tomatoes.**

DePalma, N.K. Hamden, Conn. : The Association. Annual report - Northern Nut Growers Association. Aug 1983. (74th). p. 123-129. Includes references. (NAL Call No.: 94.69 N81).

1010

## **Almond pollination and pesticides (Bee requirements).**

Mussen, E.C. San Francisco, California Farmer Publishing Co. California farmer. Nov 15, 1980. v. 253 (8). p. 18-19. (NAL Call No.: S1.C185).

1011

## **ALMOPOL: a cross-pollination and nut set simulation model for almond.**

JOSHB. DeGrandi-Hoffman, G. Roth, S.A.; Loper, G.M. Alexandria, Va. : The Society. ALMOPOL is an interactive computer-based model that simulates the interactions of weather, bloom phenology, blossom quality, and honey bee foraging behavior that culminate in almond *Prunus dulcis* (Mill) D.A. Webb nut set. ALMOPOL enables users to enter orchard conditions, colonies per hectare, and foragers per colony. Information concerning honey bee foraging behaviors and blossom quality (i.e., a blossom's probability of setting a nut if cross-pollinated) can also be entered interactively into the program. Hence, nut set estimates are specific for a given set of weather, orchard, bee behavior, and blossom quality conditions. A description of the logic and data used in ALMOPOL's construction is included. Journal of the American Society for Horticultural Science. Jan 1989. v. 114 (1). p. 170-176. Includes references. (NAL Call No.: DNAL 81 S012).

1012

## **Association of endogenous growth substances to premature shuck opening of pecan.**

PLAAA. Chin, K.L. Young, W.A. S.1. : The Academy. The proceedings of the Louisiana Academy of Sciences. Dec 1985. v. 48. p. 1-5. Includes references. (NAL Call No.: DNAL 500 L932).

1013

## **Axillary shoot abscission in pecan and its relationship to growth regulators.**

JOSHB. Wood, B.W. Alexandria, Va. : The Society. The relatively low incidence of axillary shoot development in pecan *Carya illinoensis* (Wangenh.) C. Koch and its detrimental impact on nut productivity prompted: 1) an evaluation of methods to induce axillary shoot morphogenesis, and 2) estimation of levels of endogenous phytohormones in abscising and nonabscising axillary shoots. Retention of developing shoots from 1-year-old terminals was increased three-fold by ringing. Application of benzyladenine (BA) delayed, but did not prevent, shoot abscission, whereas abscisic acid (ABA), indoleacetic acid (IAA), and gibberellic acid (GA3) applications had no detectable effect. Normal morphogenesis of axillary shoots was independent of the presence of developing catkins. Phytohormones tentatively identified in pecan axillary shoots and catkins were IAA, ABA, dihydrozeatin riboside (DHZR), t-zeatin riboside (ZR), trans-zeatin (Z), and dihydrozeatin (DHZ). A possible influence of these substances on budbreak and shoot morphogenesis is discussed. Axillary shoots eventually abscising exhibited a substantially higher level of IAA-like and ABA-like substances than did shoots completing morphogenesis. Chemical names used: N-(phenylmethyl)-1H-purin-6-amine (BA); abscisic acid (ABA); 1H-indole-3-acetic acid (IAA); gibberellic acid (GA<sub>3</sub>). Journal of the American Society for Horticultural Science. Sept 1988. v. 113 (5). p. 713-717. ill. Includes references. (NAL Call No.: DNAL 81 S012).

1014

## **Bee colony management techniques for improved pollination (Supplemental feeding of beehives during bloom with sugar syrup, use of pollen traps, pollen foraging, almond orchards).**

Thorp, R. Loper, G. Sacramento : California Almond Growers Exchange. Almond facts. Jan/Feb 1984. v. 49 (1). p. 33-34. (NAL Call No.: 280.28 AL62).

1015

## **Benzyladenine-stimulated rooting in fruit-tree rootstocks cultured in vitro (Myrobalan plums, cherry, quince, peach X almond).**

Nemeth, G. Stuttgart, Gustav Fischer. Zeitschrift fur Pflanzenphysiologie. = International journal of plant physiology. 1979. v. 95 (5). p. 389-396. ill. 35 ref. (NAL Call No.: 450 Z32).

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1016

**Black walnut tissue culture update.**

NONGA. Stefan, S.U. Millikan, D.F. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 111-112. Includes references. (NAL Call No.: DNAL 94.69 N81).

1017

**Black walnut with autumn-olive as a nurse plant.**

UTASA. Miller, N.A. Hixson, Tenn. : The Academy. Journal of the Tennessee Academy of Science. Jan 1987. v. 62 (1). p. 23-24. Includes references. (NAL Call No.: DNAL 500 T25A).

1018

**Blossom dates for select black walnut (*Juglans nigra*) cultivars.**

NONGA. Gustafson, W.A. Morrissey, T.M.; Nelson, R.O. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 91-94. Includes references. (NAL Call No.: DNAL 94.69 N81).

1019

**Blossom dates for select northern pecan (*Carya illinoensis*) cultivars.**

NONGA. Morrissey, T.M. Gustafson, W.A.; Nelson, R.O. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 112-116. Includes references. (NAL Call No.: DNAL 94.69 N81).

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**Boron partitioning in B-sprayed and unsprayed fruiting twigs of hazelnut.**

CSOSA2. Shrestha, G.K. Thompson, M.M.; Righetti, T.L. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Oct 1986. v. 17 (10). p. 1033-1040. Includes references. (NAL Call No.: DNAL S590.C63).

1021

**Carbohydrate changes in various organs of bearing and nonbearing pecan trees (*Carya illinoensis*).**

Wood, B.W. McMeans, J.L. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Nov 1981. v. 106 (6). p. 758-761. Includes 31 ref. (NAL Call No.: 81 S012).

1022

**Carbohydrate composition of vascular system exudates and characterization of their uptake by leaf tissue of pecan.**

JOSEB. Wood, B.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. Mar 1987. v. 112 (3). p. 346-351. Includes references. (NAL Call No.: DNAL 81 S012).

1023

**Cell and tissue damage associated with pistillate flower abscission of Persian walnut.**

HUJSA. Catlin, P.B. Polito, V.S. Alexandria, Va. : American Society for Horticultural Science. HortScience. Dec 1989. v. 24 (6). p. 1003-1005. ill. Includes references. (NAL Call No.: DNAL SB1.H6).

1024

**Cold damage in pecan trees and scion wood.**

NONGA. Smith, M.W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 2-5. Includes references. (NAL Call No.: DNAL 94.69 N81).

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**Cold hardiness and supercooling in pecan.**

NONGA. Rajashekar, C.B. Reid, W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 138-141. Includes references. (NAL Call No.: DNAL 94.69 N81).

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**Cold hardiness capability of northern pecans: a preliminary report.**

NONGA. Nelson, R.O. Gustafson, W.A. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 101-103. (NAL Call No.: DNAL 94.69 N81).

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**Cold hardiness capability of northern pecans: early observations.**

NONGA. Nelson, R.O. Gustafson, W.A. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 134-137. (NAL Call No.: DNAL 94.69 N81).



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**Cold hardiness capability of northern pecans: final results.**

NONGA. Nelson, R.O. Gustafson, W.A. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 101-103. (NAL Call No.: DNAL 94.69 N81).

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**Cold injury susceptibility of pecan as influenced by cultivar, carbohydrates and crop load.**

Wood, B.W. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1986. (79th). p. 55-59. Includes references. (NAL Call No.: DNAL 94.69 G29).

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**A comparison of zinc injection and zinc implantation for rapid correction of zinc deficiency (Pecans).**

Worley, R.E. Littrell, R.H.; Dutcher, J.D. Atlanta, Ga., Publications South. Pecan South. Apr 1981. v. 8 (3). p. 30-32. 5 ref. (NAL Call No.: SB401.P4P4).

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**CRC handbook of nuts /author, James A. Duke.** Duke, James A., 1929-. Boca Raton, Fla. : CRC Press, 1988. Includes index. 16 , 343 p. : ill. ; 26 cm. Bibliography: p. 293-305. (NAL Call No.: DNAL SB401.A4D84).

1032

**Current recommendations for leaf P levels too low, study shows.**

PEQUA. Sparks, D. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. Literature review. Jan/Feb 1989. v. 23 (1). p. 9-13. Includes references. (NAL Call No.: DNAL SB401.A1P4).

1033

**Decreased net photosynthetic and dark respiration rates of pecan fruit and foliage in response to infection by Cladosporium caryigenum.**

PLDRA. Gottwald, T.R. Wood, B.W. St. Paul, Minn. : American Phytopathological Society. Plant disease. Sept 1985. v. 69 (9). p. 800-803. ill. Includes 17 references. (NAL Call No.: DNAL 1.9 P69P).

1034

**Deep supercooling in stem and bud tissues of pecan.**

HJHSA. Rajashekar, C.B. Reid, W. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1989. v. 24 (2). p. 348-350. Includes references. (NAL Call No.: DNAL SB1.H6).

1035

**Deficient pollination can affect tree yields, management practices.**

PEQUA. Herrera, E. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Sept 1985. v. 19 (5). p. 4-6, 8. ill. Includes 11 references. (NAL Call No.: DNAL SB401.A1P4).

1036

**Delayed dormancy in pecans.**

Amling, H.J. Amling, K.A. Auburn, The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Fall 1980. v. 27 (3). p. 8. (NAL Call No.: 100 AL1H).

1037

**Determining hydrostatic pressures inside developing pecans.**

Prussia, S.E. Tollner, E.W.; Daniell, J.W. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-3077). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

1038

**Developmental times of the Pacific spider mite (Acari: Tetranychidae) on water-stressed almond trees.**

EVETEX. Oi, D.H. Sanderson, J.P.; Youngman, R.R.; Barnes, M.M. Lanham, Md. : Entomological Society of America. Greenhouse and field studies were conducted to assess the effects of water stress on almond leaf temperatures and Pacific spider mite, Tetranychus pacificus McGregor, developmental times. Egg-to-egg developmental times on water-stressed almond trees were 11% faster than developmental times on nonstressed trees. Leaf surface temperatures on the stressed trees averaged 2.1 degrees C higher than those on the nonstressed trees. Accumulated degree-hours for egg-to-egg development were not significantly different among the mites from the stress and nonstress

treatments. Thus, the faster developmental times for the mites on the stressed trees were the result of the higher leaf surface temperatures. Mean daily leaf canopy temperatures from 4-yr-old, water-stressed almond trees were 2.0 degrees C higher than control trees under field conditions. Leaf canopy temperature differences were significantly correlated with differences in predawn leaf water potentials between the water-stressed and control trees. Mature almond trees under an irrigation regime of 55 % evapotranspiration (ET) had significantly higher afternoon leaf canopy temperatures than trees under regimes of 85 and 100% ET. Increased leaf surface temperatures in water-stressed almond trees have the potential for accelerating increases in spider mite populations. Environmental entomology. Apr 1989. v. 18 (2). p. 208-212. Includes references. (NAL Call No.: DNAL QL461.E532).

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**Differences in leaf nutrient concentration from Mature Stuart and Schley trees (Pecans, varieties).**

White, A.W. Jr. Hunter, R.E. Atlanta, Ga., Publications South. Pecan South. Mar 1981. v. 8 (2). p. 22-23. 12 ref. (NAL Call No.: SB401.P4P4).

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**Drought-resistance fruits and nuts for the water efficient landscape.**

Del Hotal, T. Fullerton, Calif. : California Rare Fruit Growers, Inc. Journal (California Rare Fruit Growers). 1989. v. 21. p. 8-19. (NAL Call No.: DNAL SB354.C3).

1041

**Effect of ethephon on IAA transport, IAA conjugation, and antidotal action of NAA in relation to leaf abscission of pecan.**

JOSHB. Wood, B.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1985. v. 110 (3). p. 340-343. ill. Includes 26 references. (NAL Call No.: DNAL 81 S012).

1042

**Effect of powdery mildew on net photosynthesis, dark respiration, and kernel composition of pecan (*Microsphaera penicillata*, *Microsphaera alni*, *Carya illinoensis*).**

Gottwald, T.R. Wood, B.W.; Bertrand, P.F. St. Paul, Minn. : American Phytopathological Society. Plant disease. June 1984. v. 68 (6). p. 519-521. ill. Includes references. (NAL Call No.: 1.9 P69P).

1043

**Effect of shoot vigor on pistillate flower production and abortion in 'Stuart' pecan.**

HJHSA. Sparks, D. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1988. v. 23 (3). p. 570-571. Includes references. (NAL Call No.: DNAL SB1.H6).

1044

**The effect of stratification and GA3 on germination of filbert seed as influenced by dry storage.**

PNGOA. Nussbaum, E.S. Lagerstedt, H.B. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1983. (68th). p. 86-88, 90-92. ill. Includes 9 references. (NAL Call No.: DNAL 94.69 W52).

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**Effects of cold storage on pecan pollen germination.**

Yates, I.E. Thompson, T.E. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Meeting held in March, 1987, Savannah, Georgia. Mar 1987. (80th). p. 35-39. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1046

**Effects of flooding and soil phosphorus levels on pecan seedlings.**

HJHSA. Wazir, F.K. Smith, M.W.; Akers, S.W. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1988. v. 23 (3). p. 595-597. Includes references. (NAL Call No.: DNAL SB1.H6).

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**Effects of gibberellic acid and alar on pecan shuck disease and yield (Physiological diseases).**

Chin, K.L. Young, W.A.; Newsom, D.W. (s.l.), The Academy. The proceedings of the Louisiana Academy of Sciences. 1980. v. 43. p. 18-21. 21 ref. (NAL Call No.: 500 L932).

1048

**Effects of pollen traps on honey bee (*Hymenoptera: Apidae*) foraging and brood rearing during almond and prune pollination.**

EVETEX. Webster, T.C. Thorp, R.W.; Briggs, D.; Skinner, J.; Parisian, T. College Park, Md. : Entomological Society of America. Environmental entomology. Dec 1985. v. 14 (6). p. 683-686. Includes references. (NAL Call No.: DNAL QL461.E532).



1049

**The effects of TEMIK brand pesticide on foliage pests and growth of nonbearing-young pecan trees.**

Ayers, A.R. LaPrade, J.C. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 189-194. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1050

**Effects of time of nitrogen application and soil texture on the availability of isotopically labeled fertilizer nitrogen to reproductive and vegetative tissue of mature almond trees.**

Weinbaum, S.A. Klein, I.; Broadbent, F.E.; Micke, W.C.; Muraoka, T.T. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1984. v. 109 (3). p. 339-343. Includes references. (NAL Call No.: 81 S012).

1051

**Effects of topsoil and subsoil acidity on root growth of pecan seedlings.**

White, A.W. Jr. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. (75th). p. 149-156. ill. Includes 13 ref. (NAL Call No.: 94.69 G29).

1052

**Effects of tree spade size and tree size on the initial growth of transplanted pecan trees.**

Laiche, A.J. Jr. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1986. (79th). p. 67-71. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1053

**Embryo development in 'Tonda gentile delle Langhe' hazelnut.**

HJHSA. Me, G. Botta, R.; Vallania, R. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1989. v. 24 (1). p. 122-125. ill. Includes references. (NAL Call No.: DNAL SB1.H6).

1054

**Energy and power requirements for shearing modulated almond pruning (Compacting orchard wastes, California).**

Zohns, M.A. Jenkins, B.M. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-3556). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

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**Evaluation of root and shoot growth of field and container grown pecan trees 5 years after transplanting.**

Laiche, A.J. Jr. Kilby, W.W.; Overcash, J.P. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1984. (77th). p. 145-149. ill. Includes references. (NAL Call No.: 94.69 G29).

1056

**Flowering and nut maturity dates of eleven pecan cultivars growing in southeast Kansas.**

NONGA. Reid, W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 84-89. Includes references. (NAL Call No.: DNAL 94.69 N81).

1057

**Foliar-applied boron increases fruit set in 'Barcelona' hazelnut.**

JOSH. Shrestha, G.K. Thompson, M.M.; Righetti, T.L. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1987. v. 112 (3). p. 412-416. Includes references. (NAL Call No.: DNAL 81 S012).

1058

**Further observations on the toxicity of black walnut on tomatoes and some other plants (Juglans nigra).**

MacDaniels, L.H. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. (71st). p. 112-126. ill. Includes 8 ref. (NAL Call No.: 94.69 N81).



## (PLANT PHYSIOLOGY AND BIOCHEMISTRY)

1059

**Growing fruits, berries & nuts, Southwest-Southeast /George Ray McEachern.**  
McEachern, George Ray. McEachern, George Ray.  
Houston : Gulf Pub. Co., c1990. Rev. ed. of:  
Growing fruits, berries & nuts in the South.  
c1978.~ Includes index. x, 100 p. : ill. ; 28  
cm. (NAL Call No.: DNAL SB355.M16 1990).

1060

**Growing pecans in New Mexico.**  
Herrera, E. College Station, Tex. : The  
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1061

**Hazels and filberts in Seattle.**  
WAFBA. Jacobson, A.L. Seattle : The Foundation.  
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University of Washington. Spring 1984. v. 47  
(1). p. 12-18. ill. Includes 7 references. (NAL  
Call No.: DNAL 451 AR1).

1062

**Heat units determine nut maturity date.**  
PEQUA. Sparks, D. Bryan, Tex. : Texas Pecan  
Growers Association. Pecan south including  
pecan quarterly. July/Aug 1989. v. 23 (4). p.  
18-19. Includes references. (NAL Call No.: DNAL  
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1063

**Honeybees in almond pollination (Apis mellifera, California).**  
Thorp, R.W. Sacramento : California Almond  
Growers Exchange. Almond facts. Jan/Feb 1984.  
v. 49 (1). p. 30-32. ill. (NAL Call No.: 280.28  
AL62).

1064

**Impact of pecan leaf blotch on gas exchange of pecan leaves.**  
PLDIDE. Andersen, P.C. Aldrich, J.H.; Gould,  
A.B. St. Paul, Minn. : American  
Phytopathological Society. Plant disease. Mar  
1990. v. 74 (3). p. 203-207. Includes  
references. (NAL Call No.: DNAL 1.9 P69P).

1065

**Impact of ten spray adjuvants on leaf gas exchange of pecan, blueberry, photinia, and azalea.**  
HUHSA. Andersen, P.C. Mizell, R.F. III; Knox,  
G.W. Alexandria, Va. : American Society for  
Horticultural Science. HortScience. Apr 1988.  
v. 23 (2). p. 343-345. Includes references.  
(NAL Call No.: DNAL SB1.H6).

1066

**Improving honey bee pollination efficiency in almonds.**  
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Alverson, D.R. Hanlin, W.G. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 67-72. Includes 13 ref. (NAL Call No.: 94.69 G29).

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EVETEX. Tedders, W.L. Reilly, C.C.; Wood, B.W.; Morrison, R.K.; Lofgren, C.S. Lanham, Md. : Entomological Society of America. Pecan, *Carya illinoensis* (Wangenh.) K. Koch, orchards provide an important habitat for the red imported fire ant, *Solenopsis invicta* Burén, and orchards from middle to southern Georgia were heavily infested. Honeydew produced by blackmargined aphids, *Monellia caryella* (Fitch), on pecans was an important source of carbohydrate food for *S. invicta*, which were found foraging at 9-m heights in trees. Mowing of orchard ground cover caused a change in the ratio of *S. invicta* on the ground to that in trees but was not correlated with outbreaks of *M. caryella* in trees. *S. invicta* was a major predator of eggs, larvae, and pupae of a green lacewing, *Chrysoperla rufilabris* (Burmeister), and of the pupae of *Allograpta obliqua* (Say) in pecans but had little effect on the eggs of *Hippodamia convergens* Guérin-Méneville. A close mutualistic relationship between *S. invicta* and the mealybug *Dysmicoccus morrisoni* (Hollinger) was discovered. *S. invicta* promoted the development of colonies of *D. morrisoni* on callus tissue located on the main stem of trees by covering the colony with soil and debris, by defending the colony, and by collecting honeydew. Environmental entomology. Feb 1990. v. 19 (1). p. 44-53. Includes references. (NAL Call No.: DNAL QL461.E532).

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JEENAI. Headley, J.C. Hoy, M.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1987. v. 80 (3). p. 555-559. Includes references. (NAL Call No.: DNAL 421 J822).

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**Biology, damage and sampling of pecan leaf scorch mite (*Eotetranychus hicoriae*).**

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Jackson, P.R. Hunter, P.E. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 219-226. Includes 10 ref. (NAL Call No.: 94.69 G29).

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JEENAI. Tedders, W.L. Payne, J.A. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1986. v. 79 (2). p. 490-496. ill. Includes references. (NAL Call No.: DNAL 421 J822).

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Carpenter, T.L. Neel, W.W.; Coats, R.C. Atlanta, Ga., Publications South, Inc. Pecan South. Mar 1980. v. 7 (2). p. 6-9. ill. 9 ref. (NAL Call No.: SB401.P4P4).

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**Comparison of feeding damage caused by four tetranychid mite species on gas-exchange rates of almond leaves.**

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**Comparison of pesticides for pecan leaf scorch mite (Eotetranychus hicoriae) control.**

Jackson, P.R. Payne, J.A. Atlanta, Ga., Publications South. Pecan South. Apr 1980. v. 7 (3). p. 26-27. ill. 3 ref. (NAL Call No.: SB401.P4P4).

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Gorsuch, C.S. Aitken, J.B. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 41-45. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

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Johnson, D.R. Jones, B.F.; McDaniel, M.C. Little Rock, Ark. : The Service. Leaflet EL - Arkansas University, Cooperative Extension Service. July 1987. (272). 6 p. (NAL Call No.: DNAL 275.29 AR4LE).

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**Control of the walnut husk fly (Ragoletis completa) with pyrethroids and bait.**

Hislop, R.G. Riedl, H.; Joos, J.L. Berkeley, Calif., The Station. California agriculture - California Agricultural Experiment Station. Sept/Oct 1981. v. 35 (9/10). p. 23-25. ill. (NAL Call No.: 100 C12CAG).

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**Control pecan aphids with predators.**

Tribble, C.F. Willoughby, Ohio : Meister Publishing Company. American fruit grower. Aug 1985. v. 105 (8). p. 8, 10. ill. (NAL Call No.: DNAL 80 G85).

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**Controlling ants in almond orchards**

(*Tetramorium caespitum*, *Solenopsis xyloni*).

Reil, W.O. Bentley, W.J.; Viveros, M.; Davis, C.S.; Paine, E.L.; Beurmann, L.B. Berkeley, Calif., The Station. California agriculture - California Agricultural Experiment Station. July 1982. v. 36 (7). p. 12-14. ill. (NAL Call No.: 100 C12CAG).

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**Controlling insects and diseases of the pecan by M.R. Osburn ... et al. . --.**

Osburn, M. R. 1901-. Washington, D.C. : U.S. Dept. of Agriculture, 1966. 55 p. : ill. --. (NAL Call No.: DNAL Fiche S-85 no.240 1966).

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**Cool- and warm-season cover crops in the pecan groves of southern Georgia: management for soil fertility and biological control.**

NONGA. Bugg, R.L. Dutcher, J.D.; Phatak, S.C. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1988. (79th). p. 53-58. Includes references. (NAL Call No.: DNAL 94.69 N81).

1233

**Cultural control of navel orangeworm in almond orchards (California).**

Engle, C.E. CAGRA. Barnes, M.M. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Sept/Oct 1983. v. 37 (9/10). p. 19. (NAL Call No.: 100 C12CAG).

1234

**Cultural management of the naval orangeworm by winter sanitation.**

CAGRA. Zalom, F.G. Weakley, C.; Hendricks, L.C.; Bentley, W.J.; Barnett, W.W.; Connell, J.H. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Mar/Apr 1984. v. 38 (3/4). p. 28. ill. (NAL Call No.: DNAL 100 C12CAG).

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McVay, J.R. Ellis, H.C. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1986. (79th). p. 111-112. Includes references. (NAL Call No.: DNAL 94.69 G29).

1236

**Cyhexatin and fenbutatin-oxide resistance in Pacific spider mite (Acari: Tetranychidae): stability and mode of inheritance.**

JEENAI. Hoy, M.A. Conley, J.; Robinson, W. Lanham, Md. : Entomological Society of America. The Pacific spider mite, *Tetranychus pacificus* McGregor, collected from California almond orchards during 1984 and 1985, was tested with cyhexatin and fenbutatin-oxide to determine whether resistance (R) to these acaricides was present. A cyhexatin-resistant colony was selected in the greenhouse with cyhexatin for 15 mo to obtain a pure colony for genetic analysis. Mode-of-inheritance data were consistent with a model in which cyhexatin resistance in this colony is primarily determined by a major semirecessive gene. A flowable formulation of cyhexatin was more toxic to both R and susceptible (S) strains than was the wettable powder formulation. Larvae of the R and S strains exhibited survival rates similar to those of adults. Concentration/mortality lines for both fenbutatin-oxide and cyhexatin were obtained for both R and S strains; results were consistent with the hypothesis that cyhexatin resistance confers fenbutatin-oxide resistance in this population. Greenhouse populations held for 9 mo without selection with cyhexatin retained their original resistance levels, as indicated by the percent survival of colonies initiated from RR, SR, RS, and SS females. Negative fitness did not appear to be associated with the resistance allele under these conditions. Journal of economic entomology. Feb 1988. v. 81 (1). p. 57-64. Includes references. (NAL Call No.: DNAL 421 J822).

1237

**Cyhexatin and propargite resistance in populations of spider mites (Acari: Tetranychidae) from California almonds.**

JEENAI. Keena, M.A. Granett, J. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1987. v. 80 (3). p. 560-564. Includes references. (NAL Call No.: DNAL 421 J822).



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**Damage and mortality to pecan (*Carya illinoensis* (Wangenh.) K. Koch) seedlings by subterranean termites (*Reticulitermes flavipes* (Kollar) in an Oklahoma forest nursery.**  
 NONGA. Affeltranger, C.E. Solomon, J.D.; Vorwerk, M.P. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 88-90. ill.  
 Includes references. (NAL Call No.: DNAL 94.69 N81).

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**Delayed and split-application techniques for pecan insect control with TEMIK (Alabama).**  
 Chapman, L.C. McVay, J.R. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 73-78.  
 Includes 3 ref. (NAL Call No.: 94.69 G29).

1240

**Developmental times of the Pacific spider mite (*Acari: Tetranychidae*) on water-stressed almond trees.**

EVETEX. Oi, D.H. Sanderson, J.P.; Youngman, R.R.; Barnes, M.M. Lanham, Md. : Entomological Society of America. Greenhouse and field studies were conducted to assess the effects of water stress on almond leaf temperatures and Pacific spider mite, *Tetranychus pacificus* McGregor, developmental times. Egg-to-egg developmental times on water-stressed almond trees were 11% faster than developmental times on nonstressed trees. Leaf surface temperatures on the stressed trees averaged 2.1 degrees C higher than those on the nonstressed trees. Accumulated degree-hours for egg-to-egg development were not significantly different among the mites from the stress and nonstress treatments. Thus, the faster developmental times for the mites on the stressed trees were the result of the higher leaf surface temperatures. Mean daily leaf canopy temperatures from 4-yr-old, water-stressed almond trees were 2.0 degrees C higher than control trees under field conditions. Leaf canopy temperature differences were significantly correlated with differences in predawn leaf water potentials between the water-stressed and control trees. Mature almond trees under an irrigation regime of 55 % evapotranspiration (ET) had significantly higher afternoon leaf canopy temperatures than trees under regimes of 85 and 100% ET. Increased leaf surface temperatures in water-stressed almond trees have the potential for accelerating increases in spider mite populations. Environmental entomology. Apr 1989. v. 18 (2). p. 208-212. Includes references. (NAL Call No.: DNAL QL461.E532).

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**Diagnostic evidence of damage on pecan shells by stink bugs and coreid bugs.**

JOSHB. Yates, I.E. Tedders, W.L.; Sparks, D. Alexandria, Va. : The Society. Feeding activity by several species of phytophagous stink bugs and coreid bugs (Pentatomidae and Coreidae) on the fruits of pecan *Carya illinoensis* (Wangenh.) C. Koch causes severe economic losses in nut yield and kernel quality. Verification of late-season damage by these insects to pecan nuts has been possible only after examination of the condition of the kernel. Staining nuts with a red fluorescent tracing dye resulted in a differential contrast between the surface of the shell and sites of hemipteran punctures. This technique can be used with the aid of a dissecting microscope to identify hemipteran bug damage by examining the exterior of the shell. Stylet sheaths connecting the packing material on the shell interior to the seedcoat of the kernel have been identified and can be used as confirmatory evidence of hemipteran attack. Journal of the American Society for Horticultural Science. Jan 1991. v. 116 (1). p. 42-46. ill. Includes references. (NAL Call No.: DNAL 81 S012).

1242

**Disruption of navel orangeworm (*Lepidoptera: Pyralidae*) oviposition by almond by-products.**

JEENAI. Van Steenwyk, R.A. Barnett, W.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1987. v. 80 (6). p. 1291-1296. Includes references. (NAL Call No.: DNAL 421 J822).

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**The dynamics of aldicarb.**

Alverson, D.R. Hornby, J.A. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Meeting held in March, 1987, Savannah, Georgia. Mar 1987. (80th). p. 105-109. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

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**Early season pest control in pecans (*Phylloxera notabilis*, pests, diseases).**

Ellis, H.C. Bertrand, P. Atlanta : Publications South, Inc. Pecan south. Mar 1983. v. 10 (2). p. 6-7, 9-10. ill. (NAL Call No.: SB401.P4P4).

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**Economic analysis of navel orangeworm control in almonds (*Amyelois transitella*, partial enterprise budgeting).**

Headley, J.C. CAGRA. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. May/June 1983.



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**Economic analysis of selected insect pest management practices for almonds (Navel orangeworm, California).**

Headley, J.C. Sacramento, Calif., California Almond Growers Exchange. Almond facts. Jan/Feb 1982. v. 47 (1). p. 50-51. (NAL Call No.: 280.28 AL62).

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**Economic considerations in pecan pest management (Alabama).**

Boutwell, J.L. Starkville, Miss. Proceedings ... annual convention Southeastern Pecan Growers Association. 1979. 1979. (72d). p. 55-59. ill. (NAL Call No.: 94.69 G29).

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**The economics of integrated mite management in almonds.**

CAGRA. Headley, J.C. Hoy, M.A. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Jan/Feb 1986. v. 40 (1/2). p. 28-30. (NAL Call No.: DNAL 100 C12CAG).

1249

**The effect of a fungicide on fungal-induced mortality of pecan aphids (Homoptera: Aphididae) in the field.**

JEENAI. Pickering, J. Dutcher, J.D.; Ekbom, B.S. Lanham, Md. : Entomological Society of America. Aphids were collected in Pecan (*Carya illinoensis* Koch) orchard plots untreated or treated with the fungicide triphenyltin hydroxide. Mortality caused by insect pathogenic fungi was measured. The dominant host species, the blackmargined aphid (*Monellia caryella* (Fitch)), was infected with three genera of fungi in the Entomophthorales: *Neozygites*, *Entomophthora* and *Erynia*. Significantly higher fungal-induced mortality was found in the untreated plots in each of three years. Journal of economic entomology. Oct 1990. v. 83 (5). p. 1801-1805. Includes references. (NAL Call No.: DNAL 421 J822).

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**Effect of humidity and cold storage on diapause termination of hickory shuckworm larvae.**

SENTD. Gunasena, G.H. Harris, M.K. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Mar 1987. v. 12 (1). p. 24-31. Includes references. (NAL Call No.: DNAL QL461.S65).

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**Effect of temperature and other factors on diapause of pecan weevil: preliminary studies (*Curculio caryae*).**

Sikorowski, P.P. GENSA. Neel, W.W. Athens : The Society. Journal of the Georgia Entomological Society. Oct 1982. v. 17 (4). p. 501-505. ill. Includes references. (NAL Call No.: QL461.G4).

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**Effect of thermal unit accumulation on (pecan) stem phylloxera emergence (*Phylloxera devastatrix*).**

Polles, S.G. Long, W.; Mullenax, R.H. Atlanta, Ga., Publications South. Pecan South. Apr 1981. v. 8 (3). p. 15-17. ill. 5 ref. (NAL Call No.: SB401.P4P4).

1253

**Effectiveness of various insecticides and application methods for pecan insect control in South Carolina.**

Gorsuch, C.S. Aitken, J.B. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 163-166. (NAL Call No.: 94.69 G29).

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**The effects of aphids and aphidicides on photosynthesis of young pecan leaves.**

Wood, B. Tedders, W.L.; Payne, J. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 73-76. Includes references. (NAL Call No.: 94.69 G29).

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**The effects of EDB fumigation and shanking on adult pecan weevil emergence in native Texas pecans under drought conditions.**

SENTD. Cocke, J. Jr. Worthington, W.; Harris, M.K.; Lee, T.A. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Dec 1984. v. 9 (4). p. 375-381. Includes references. (NAL Call No.: DNAL QL461.S65).

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**Effects of feeding by blackmargined aphids on pecan seedlings in the greenhouse (*Monellia caryella*).**

Tedders, W.L. Smith, J.S.; White, A.W. Jr. Atlanta : Publications South, Inc. Pecan south. May 1982. v. 9 (3). p. 22-23. Includes references. (NAL Call No.: SB401.P4P4).

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**Effects of feeding by *Monelliopsis nigropunctata*, *Monellia caryella*, and *Melanocallis caryaefoliae* on growth of pecan seedlings in the greenhouse (Aphididae).**

Tedders, W.L. Wood, B.W.; Snow, J.W. College Park, Md., Entomological Society of America. Journal of economic entomology. Apr 1982. v. 75 (2). p. 287-291. 1 p. ref. (NAL Call No.: 421 J822).

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**The effects of juglone, fiber and nitrogen-free extract levels in pecan leaves on black-margined aphid populations (*Monellia caryella*).**

Neel, W.W. Carpenter, T.L.; Borazjani, A.H.; Hedin, P.A. Bryan, Tx., Texas Pecan Growers Association. The pecan quarterly. May 8, 1982. v. 16 (2). p. 5-9. ill. 7. (NAL Call No.: SB401.A1P4).

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**Effects of Pacific spider mite (*Tetranychus pacificus*) on physiological processes of almond foliage.**

Andrews, K.L. La Pre, L.F. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1979. v. 72 (5). p. 651-654. ill. 9 ref. (NAL Call No.: 421 J822).

1260

**Effects of pesticides on pecan aphid predators *Chrysoperla rufilabris* (Neuroptera: Chrysopidae), *Hippodamia convergens*, *Cycloneda sanguinea* (L.), *Olla v-nigrum* (Coleoptera: Coccinellidae), and *Aphelinus perpallidus* (Hymenoptera: Encyrtidae).**

JEENAI. Mizell, R.F. III. Schiffhauer, D.E. Lanham, Md. : Entomological Society of America. The pecan aphid predators, *Chrysoperla rufilabris* (Burmeister) (egg, larva, and adult); adult *Hippodamia convergens* (Guerin-Meneville); *Cycloneda sanguinea* (L.); *Olla v-nigrum* (Say); and pupae of the parasite, *Aphelinus perpallidus* Gahan, were tested in the laboratory for mortality to registered commercial pesticides. Concentration-response lines were estimated for *C. rufilabris* larvae and adults. Only the half and full concentrations (recommended on label for pecan) were tested on the other species. Fungicides and acaricides caused <50% mortality to all the species, indicating compatibility of the predators and the parasite with chemicals used for disease and mite control. Endosulfan and phosalone were least toxic, but none of the insecticides was safe for all of the species tested. Pyrethroids were not toxic to larvae and adult *C. rufilabris* but organophosphates and carbamates were. We observed differences in response by the egg, larva, and adult *C. rufilabris* to fenvalerate, cypermethrin, phosalone, endosulfan, lindane and

dicofol. Pyrethroids were toxic to *O. v-nigrum* but phosalone, methidathion, ethion, lindane, and malathion were not. Only lindane was not toxic to adult *H. convergens*. All chemicals tested caused >70% mortality to *C. sanguinea*. Phosalone, lindane, fluvalinate, endosulfan, and azinphos-methyl were not toxic to *A. perpallidus*. Results from this study provide information about the selectivity of pesticides for integration of biological and chemical controls for pecan aphids. Journal of economic entomology. Oct 1990. v. 83 (5). p. 1806-1812. Includes references. (NAL Call No.: DNAL 421 J822).

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**Effects of pheromone trap design and placement on capture of almond moth, *Cadra cautella* (Lepidoptera: Pyralidae).**

JEENAI. Ahmad, T.R. College Park, Md. : Entomological Society of America. Journal of economic entomology. Aug 1987. v. 80 (4). p. 897-900. Includes references. (NAL Call No.: DNAL 421 J822).

1262

**The effects of TEMIK brand pesticide on foliage pests and growth of nonbearing-young pecan trees.**

Ayers, A.R. LaPrade, J.C. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 189-194. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1263

**The effects of yellow aphid on the fruit and foliage of mature 'Stuart' pecans (*Monellia caryella*, and *Monelliopsis pecanis*).**

Tedders, W.L. Wood, B.W. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1984. 1984. (77th). p. 127-135. Includes references. (NAL Call No.: 94.69 G29).

1264

**Effects of 1,1-dimethylpiperidinium chloride on the pests and allelochemicals of cotton and pecan (PIX, *Carya illinoensis* Koch, tobacco budworm, *Heliothis virescens* Fab., *Cladosporium caryigenum*, Ell. et Lang. Gottwald, condensed tannins, gossypol, anthocyanins, flavonoids).**

Hedin, P.A. Jenkins, J.N.; McCarty, J.C. Jr.; Mulrooney, J.E.; Parrott, W.L. Washington, D.C. : The Society. ACS Symposium series - American Chemical Society. 1984. 1984. (257). p. 171-191. Includes references. (NAL Call No.: QD1.A45).



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### **Efficacy and application of synthetic pyrethroid insecticides on pecans.**

McVay, J.R. Estes, P.; Ellis, H.C. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1984. 1984. (77th). p. 77-81. ill. Includes references. (NAL Call No.: 94.69 G29).

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### **Electroantennogram responses of the Mediterranean fruit fly, *Ceratitis capitata*, to a spectrum of plant volatiles.**

JCECD. Light, D.M. Jang, E.B.; Dickens, J.C. New York, N.Y. : Plenum Press. Journal of chemical ecology. Jan 1988. v. 14 (1). p. 159-180. Includes references. (NAL Call No.: DNAL QD415.A1J6).

1267

### **Energy drain by three pecan aphid species (Homoptera: Aphididae) and their influence on in-shell pecan production.**

EVETEX. Wood, B.W. Tedders, W.L.; Dutcher, J.D. College Park, Md. : Entomological Society of America. Environmental entomology. Oct 1987. v. 16 (5). p. 1045-1056. Includes references. (NAL Call No.: DNAL QL461.E532).

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### **Energy removed by pecan aphids and the resulting loss of nut production.**

Wood, B.W. Tedders, W.L.; Dutcher, J.D. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Meeting held in March, 1987, Savannah, Georgia. Mar 1987. (80th). p. 47-56. Includes references. (NAL Call No.: DNAL 94.69 G29).

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### **Entomology fact sheet: pecan weevil.**

Ellis, H.C. Athens, Ga. : The Service. Leaflet - Cooperative Extension Service, University of Georgia. June 1985. (26, rev.). 4 p. ill. (NAL Call No.: DNAL 275.29 G29L).

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### **Estimate of the influence of feeding by *Monelliopsis pecanis* and *Monellia caryella* (Homoptera: Aphididae) on the fruit, foliage, carbohydrate reserves, and tree productivity of mature "Stuart" pecans.**

JEENAI. Tedders, W.L. Wood, B.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1985. v. 78 (3). p. 642-646. ill. Includes references. (NAL Call No.: DNAL 421 J822).

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### **Estimates of energy drain by three pecan aphid species and their influence on leaf net photosynthesis.**

Wood, B.W. Tedders, W.L. Athens, Ga. : The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. In the series analytic: Aphids and phylloxeras of pecan / edited by W.W. Nee1, W.L. Tedders, and J.D. Dutcher. Dec 1985. (38). p. 45-50. Includes references. (NAL Call No.: DNAL HD1775.G4G43).

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### **Evaluation of an insect collecting system and an ultra-low-volume spray system on a remotely piloted vehicle.**

JEENAI. Tedders, W.L. Gottwald, T.R. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1986. v. 79 (3). p. 709-713. ill. Includes references. (NAL Call No.: DNAL 421 J822).

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### **Evaluation of application methods for systemic insecticides.**

Alverson, D.R. Aitken, J.B. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 47-53. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

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### **Evaluation of California's almond IPM program /prepared by Frank Zalom, Karen Klonsky and William Barnett.**

Zalom, Frank. Klonsky, Karen.; Barnett, William. Calif. : University of California, 1985? . iii, 63 leaves : ill., map ; 28 cm. Includes bibliographical references (leaves 39-40). (NAL Call No.: DNAL SB608.A515Z3).

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### **Evaluation of insecticides against southern pecan leaf Phylloxera.**

Calcote, V.R. Atlanta : Publications South, Inc. Pecan south. Mar 1983. v. 10 (2). p. 20-21. (NAL Call No.: SB401.P4P4).

1276

### **Evaluation of insecticides for pecan insect control in South Carolina, 1981.**

Gorsuch, C.S. Aitken, J.B. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 145-147. (NAL Call No.: 94.69 G29).



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**Evaluation of pesticides for pecan insect control in South Carolina, 1982.**  
Gorsuch, C.S. Alverson, D.R.; Aiken, J.B.  
Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 119-124. Includes references. (NAL Call No.: 94.69 G29).

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**Evaluation of synthetic pyrethroids and new carbamates for yellow aphid control on pecans (*Monellia caryella*, *Monelliopsis nigropunctata*).**  
Neel, W.W. Graves, C.H.; Coats, R.E.  
Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1984. 1984. (77th). p. 45-49. Includes references. (NAL Call No.: 94.69 G29).

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**Evaluation of Temik for control of pecan insects in South Carolina (*Carya illinoensis*, pesticide).**  
Gorsuch, C.S. Aitken, J.B. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 149-151. 2 ref. (NAL Call No.: 94.69 G29).

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**Evaluation of Temik formulations rates and application dates for control of pecan insects (*Carya illinoensis*, pesticide).**  
McVay, J.R. Chapman, L.C. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 129-132. 2 ref. (NAL Call No.: 94.69 G29).

1281

**Experiment to determine the effects of feeding by (the blackmargined aphid) *Monellia caryella* (Fitch) and of simulated honeydew on pecan seedlings in the greenhouse (Georgia).**  
Teddars, W.L. Smith, J.S.; White, A.W. Jr.  
Athens, Ga., The Society. Journal of the Georgia Entomological Society. Oct 1981. v. 16 (4). p. 515-517. 7 ref. (NAL Call No.: QL461.G4).

1282

**Experimental mite project may reduce spray costs (Biological control by using a pesticide resistant mite predator *Metaseiulus occidentalis*, almonds).**  
Sacramento : California Almond Growers Exchange. Almond facts. Sept/Oct 1983. v. 48 (5). p. 41. ill. (NAL Call No.: 280.28 AL62).

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**Experiments for control of the pecan leaf casebearer.**  
Calcote, V.R. Tedders, W.L. Jr. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. 1964. (57th). p. 61, 63. (NAL Call No.: DNAL 94.69 G29).

1284

**Extension problems in pecan entomology.**  
Ellis, H.C. Athens, Ga. : The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. In the series analytic: Aphids and phylloxeras of pecan / edited by W.W. Neel, W.L. Tedders, and J.D. Dutcher. Dec 1985. (38). p. 1-4. Includes references. (NAL Call No.: DNAL HD1775.G4G43).

1285

**Feeding influence of three pecan aphid species on carbon exchange and phloem integrity of seedling pecan foliage.**  
JOSHB. Wood, B.W. Tedders, W.L.; Thompson, J.M. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1985. v. 110 (3). p. 393-397. ill. Includes 25 references. (NAL Call No.: DNAL 81 S012).

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**Fight almond pests with predators.**  
WEFGA. Rogers, H.T. Willoughby, Ohio : Meister Pub. Co. Western fruit grower. Apr 1987. v. 107 (4). p. 24B-24C. (NAL Call No.: DNAL 80 G85W).

1287

**Filbert insect and mite pests / (M.T. AliNiazee). -.**  
AliNiazee, M. T. Corvallis Agricultural Experiment Station, Oregon State University 1980. Integrated Pest Management/Pesticide Applicator Training Collection ~Cover title ~"July 1980.". 13 p. : ill. (some col.) ; 28 cm. --. (NAL Call No.: 100 Or3 no.643).

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### **Filberts.**

PNGOA. Riggert, C. Olson, J. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. Meeting held on January 27, 1988, Portland, Oregon. 1988. (73rd). p. 11, 13-14, 16-21. (NAL Call No.: DNAL 94.69 W52).

1289

### **Filbertworm: two controls.**

Calkin, J. Stockton, Calif. : Sun-Diamond Growers of California. Sun-diamond grower. Apr/May 1986. v. 5 (3). p. 18-20. ill. (NAL Call No.: DNAL SB401.A1D5).

1290

### **Foliage pests of pecan in South Carolina: effects on nut quality and yield (Aphids).**

Alverson, D.R. Dorsuch, C.S.; Aitkens, J.B. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 99-106. ill. Includes references. (NAL Call No.: 94.69 G29).

1293

### **Fruit, nut, and vegetable insects.**

(College Station, Texas Texas Agricultural Extension Service, Texas A&M University System) 1977. Pesticide Applicator Training Collection ~Title from slide container: Fruit & vegetable pest control ~Program 24-5. 54 slides : col. + 1 sound cassette (68 min.) + 1 script. (NAL Call No.: Slide no.45).

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### **Fungal diseases for control of insect pests of pecan.**

NONGA. Dutcher, J.D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 78-80. Includes references. (NAL Call No.: DNAL 94.69 N81).

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### **Generalization and application of a degree-day model predicting pecan nut casebearer (Lepidoptera: Pyralidae) activity (Acrobasis nuxvorella).**

Ring, D.R. JEENA. Calcote, V.R.; Cooper, J.N.; Olszak, R.; Begnaud, J.E. College Park : Entomological Society of America. Journal of economic entomology. Aug 1983. v. 76 (4). p. 831-835. maps. Includes references. (NAL Call No.: 421 J822).

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### **Georgetown integrated pest management demonstration program.**

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EVETEX. Wood, B.W. Payne, J.A. Lanham, Md. : Entomological Society of America. The potentially devastating impact of the oriental chestnut gall wasp, Dryocosmus kuriphilus



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(Yasumatsu), on nut productivity of Chinese chestnut, *Castanea mollissima* (Bl.), prompted an assessment of the role of endogenous phytohormone-like growth regulators in gall development. Enzyme immunoassays for several growth regulators associated with developing galls indicated the probable presence of t-zeatin (Z), t-zeatin riboside (ZR), dihydrozeatin (DHZ), dihydrozeatin riboside (DHZR), indoleacetic acid (IAA), and abscisic acid (ABA) in gall tissues. Levels of these regulators were similar in amount and seasonal abundance to that in nongalled shoots; however, ABA- and DHZR-like substances were much higher in developing stem galls. All of these regulators (except ABA-like substances) were detected in developing gall wasps within the stem gall; however, levels within the insect were much lower than in stem-gall tissue. This indicates that these particular regulators may not be the growth controlling factor(s) that initiate gall development. Gall wasp pupae contained high levels of IAA- and DHZR-like substances, whereas larvae contained only high levels of a DHZR-like factor, indicating these substances may exhibit a role in insect morphogenesis. *Environmental entomology*. Dec 1988. v. 17 (6). p. 915-920. Includes references. (NAL Call No.: DNAL QL461.E532).

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**Impact of blackmargined aphid control on yield in western irrigated pecan orchards with systemic insecticides (*Monellia caryella*, Texas).**

Stone, J.D. Watterson, G.P. College Park, Md., Entomological Society of America. *Journal of economic entomology*. Dec 15, 1981. v. 74 (6). p. 741-744. Includes 12 ref. (NAL Call No.: 421 J822).

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**Interaction of spider mites (Acari: Tetranychidae) and water stress on gas-exchange rates and water potential of almond leaves.**

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EVETEX. Youngman, R.R. Sanderson, J.P.; Barnes, M.M. College Park, Md. : Entomological Society of America. Abstract: The effect of water stress on specific life history parameters of Tetranychus pacificus McGregor mites was tested in a greenhouse using potted almond trees. Significantly more eggs were deposited by females on trees under variable water stress than by females on trees under continuous water stress. Total egg production was not found to differ significantly between the nonstressed control and either water-stress treatment. Compared with females on control trees, the sex ratio of offspring that developed from eggs deposited on water-stressed trees exhibited a female-biased trend. In addition, the net fecundity rate in the variable water-stress treatment was significantly greater than the control by greater than 20%. Almondleaves subjected to continuous water stress had significantly higher afternoon temperatures and, at the end of the study, significantly lower total nitrogen than nonstressed leaves. The implications of these results for spider mite outbreaks are discussed. Environmental entomology. June 1988. v. 17 (3). p. 488-495. Includes references. (NAL Call No.: DNAL QL461.E532).

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**Managing spider mites in almonds with pesticide-resistant predators (Tetranychus pacificus, Tetranychus urticae, Panonychus ulmi, biological control with Metaseiulus occidentalis, California).**  
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Weakley, C.V. Connell, J.H. Sacramento : California Almond Growers Exchange. Almond facts. Mar/Apr 1984. v. 49 (2). p. 55-56. (NAL Call No.: 280.28 AL62).

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**Mycoflora (*Alternaria*, *Penicillium*, *Aspergillus*) and market quality of chestnuts treated with hot water for control of the chestnut weevil.**  
Wells, J.M. Payne, J.A. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 533. (NAL Call No.: 464.8 P56).

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SENTD. Liao, H.T. Harris, M.K.; Gilstrap, F.E.; Dean, D.A.; Agnew, C.W.; Michels, G.J.; Mansour, F. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. Dec 1984. v. 9 (4). p. 404-420. Includes references. (NAL Call No.: DNAL QL461.S65).

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**A new look at soil insecticides and fumigants for the (chemical) control of the pecan weevil (*Curculio caryae*).**

Neel, W.W. Graves, C.H.; Coats, R.E. Atlanta, Ga., Publications South. Pecan South. Apr 1981. v. 8 (3). p. 18-22. ill. 9 ref. (NAL Call No.: SB401.P4P4).

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Polles, S.G. AR-SO. Atlanta, Ga., Publications South. Pecan South. Jan 1979. v. 6 (1). p. 22-23. (NAL Call No.: SB401.P4P4).

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**The obliquebanded leafroller: identification and control (*Choristoneura rosaceana*, filberts).**

Chapin, B.R. Tigard, Or., The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1982. 1982. (67th). p. 79, 81. (NAL Call No.: 94.69 W52).

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**The obliquebanded leafroller: identification and control (Lepidoptera: Tortricidae) (*Choristoneura rosaceana*, Oregon, filberts).**

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Sibbett, G.S. Athens, Ga. : The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. In the series analytic: Aphids and phylloxeras of pecan / edited by W.W. Neel, W.L. Tedders, and J.D. Dutcher. Dec 1985. (38). p. 43-44. (NAL Call No.: DNAL HD1775.G4G43).

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### **Oriental fruit moth: an occasional pest of almonds.**

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Harris, E.D. Jr. Atlanta, Ga., Publications South. Pecan South. Mar 1981. v. 8 (2). p. 38-39. ill. (NAL Call No.: SB401.P4P4).

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**Pecan, yellow pecan aphid (*Monellia costalis*, *Monelliopsis nigropunctata*) and leaf scorch mite (*Eotetranychus hickoriae*) control, 1978.** Polles, S.G. AR~AR-SO. Reprints. United States. Dept. of Agriculture. Science and Education Administration. Agricultural Research. (NAL Call No.: aS21.A8U5/AR).

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**Performance of pecan insecticides: past, present, and future (*Carya illinoensis*).** Payne, J.A. College Park : Entomological Society of America. Insecticide and acaricide tests. 1982. v. 7. p. 5-6. (NAL Call No.: SB950.A1I49).

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### **Persistence of *Neoplectana carpocapsae* (Kapow selection) infectives in almonds under field conditions.**

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### **Pest management (Insecticides, application in pecan orchards).**

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### **Pest management of insects on almonds (*Amygdalis* transitella, navel orangeworm, *Anarsia* lineatella, peach twig borer, integrated control, chemical control, California).**

Curtis, C.E. ALMFA. Sacramento : California Almond Growers Exchange. Almond facts. July/Aug 1983. v. 48 (4). p. 35-38. ill. (NAL Call No.: 280.28 AL62).

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### **A pest management program for pecans.**

Ring, D.R. Payne, J.A.; Snow, J.W. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. Includes formula for calculating economic losses. 1986. (79th). p. 161-166. Includes references. (NAL Call No.: DNAL 94.69

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**Pest resistance to pesticides or "how to lose while winning".**

Mizell, R.F. III. Ellis, H.C. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 61-63. Includes references. (NAL Call No.: DNAL 94.69 G29).

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**Pesticide-induced differences in relative abundance of mites on pecans (dialifor, phosmet, fungicides, benomyl, fentin hydroxide, Eotetranychus hicoriae, Carya illinoensis).**

Ball, J.C. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1981. v. 74 (4). p. 425-427. 9 ref. (NAL Call No.: 421 J822).

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**Pesticide use practices of Georgia pecan growers.**

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**Physiological effects of galls induced by Phylloxera notabilis (Homoptera: Phylloxeridae) on pecan foliage.**

EVETEX. Andersen, P.C. Mizell, R.F. III. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1987. v. 16 (1). p. 264-268. Includes references. (NAL Call No.: DNAL QL461.E532).

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**Pictorial key to time spray applications for control of pecan phylloxera (Phylloxera devastatrix).**

Polles, S.G. Payne, J.A. Atlanta, Ga., Publications South. Pecan South. Apr 1980. v. 7 (3). p. 6-7. ill. 4 ref. (NAL Call No.: SB401.P4P4).

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**The potential of growth retardants for compacting tree size and influencing disease and insect resistance of mature pecan trees.**

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**The potential of gypsy moth as a pest of fruit and nut crops.**

CAGRA. Miller, J.C. Hanson, P.E.; Dowell, R.V. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Nov/Dec 1987. v. 41 (11/12). p. 10-12. ill. (NAL Call No.: DNAL 100 C12CAG).

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Hedger, G.H. Walker, L.; Hall, M.J.; Eikenbary, R.D.; Morrison, R.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 32-36. ill. Includes references. (NAL Call No.: DNAL 94.69 T31).

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**Predation by the western predatory mite (Acari: Phytoseiidae) on the Pacific spider mite (Acari: Tetranychidae) in the presence of road dust.**

EVETEX. Oi, D.H. Barnes, M.M. Lanham, Md. : Entomological Society of America. Laboratory and greenhouse studies examined the effects of



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road dust on predation by the western predatory mite, *Typhlodromus* (=Galandromus) *occidentalis* (Nesbitt), on the Pacific spider mite, *Tetranychus pacificus* McGregor. Significantly fewer Pacific spider mites were found on bean plants and almond trees with western predatory mites regardless of the presence or absence of dust. A detrimental effect of dust was not evident on populations of western predatory mites. The effect of dust on populations of Pacific spidermites was not conclusive because high and low populations were associated spider mites was presence of dust. In addition to dust and predators, we examined the effect of almond tree water stress on predation. Water stress did not have any significant effects on either population, however the accumulated degree hour difference between stressed and nonstressed trees was low. These studies suggest that road dust does not influence predation by western predatory mites on Pacific spider mites. Environmental entomology. Oct 1989. v. 18 (5). p. 892-896. Includes references. (NAL Call No.: DNAL QL461.E532).

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Sacramento, Calif. : California Almond Growers Exchange. Almond facts. July/Aug 1984. v. 49 (4). p. 33-34. ill. (NAL Call No.: 280.28 AL62).

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NONGA. Reid, W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1988. (79th). p. 97-101. (NAL Call No.: DNAL 94.69 N81).

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**Progression of navel orangeworm (Lepidoptera:Pyralidae) infestation and damage of almonds on the ground and on the tree during harvest (Amyelos transitella).**

Curtis, C.E. Curtis, R.K.; Andrews, K.L. College Park, Md. : Entomological Society of America. Environmental entomology. Feb 1984. v. 13 (1). p. 146-149. Includes references. (NAL Call No.: QL461.E532).

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**Propargite resistance in Pacific spider mite (Acari: Tetranychidae): stability and mode of inheritance.**

JEENAI. Hoy, M.A. Conley, J. Lanham, Md. : Entomological Society of America. A colony of the Pacific spider mite, *Tetranychus pacificus* McGregor, collected from California almond orchards during 1984 was found to be resistant

(R) to propargite. This propargite-resistant colony was selected 25 times with propargite for 25 mo to ensure a homogeneous colony for mode of inheritance tests. Results of these tests were generally consistent with a model in which propargite resistance in this colony is primarily determined by a major semirecessive gene. Lines for the reciprocal F1 females (RS,SR) were not different, and dominance (D) was estimated to be -0.356 and -0.315, suggesting there were no maternal effects. Greenhouse populations held for 5 mo without selection with propargite retained their original resistance levels, as indicated by the percentage of survival of colonies initiated from RR (resistant), SR, and RS females and complete concentration-mortality lines conducted at the end of the experiment. Negative fitness did not appear to be associated with the resistance allele(s) under these conditions. Journal of economic entomology. Feb 1989. v. 82 (1). p. 11-16. Includes references. (NAL Call No.: DNAL 421 J822).

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**Pyrethroids for pecan insect control.**

Turney, H.A. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas.~ Includes statistical data. 1988. v. 64. p. 11-12. (NAL Call No.: DNAL 94.69 T31).

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**Quantitative observation on leaf and nut development of pecan infested with Phylloxera devastatrix Pergande.**

Neel, W.W. Hedin, P.A. Athens, Ga. : The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. In the series analytic: Aphids and phylloxeras of pecan / edited by W.W. Neel, W.L. Tedders, and J.D. Dutcher. Dec 1985. (38). p. 71-76. Includes references. (NAL Call No.: DNAL HD1775.G4G43).

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**Reduced insecticide use in almonds through selective application.**

JEENAI. Welter, S.C. Seaman, W.S.; Engle, C.E.; Barnes, M.M. College Park, Md. : Entomological Society of America. Journal of economic entomology. June 1987. v. 80 (3). p. 650-654. Includes references. (NAL Call No.: DNAL 421 J822).

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### **Reduced leaf net photosynthesis of orchard grown pecan by pesticide sprays.**

Wood, B.W. Payne, J.A.; Gottwald, T.R. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 69-72. Includes references. (NAL Call No.: DNAL 94.69 G29).

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### **Reduction of mycoflora and control of inshell weevils in pecans stored under high carbon dioxide atmospheres.**

Wells, J.M. AR-SO. Payne, J.A. St. Paul, Minn., American Phytopathological Society. Phytopathology. June 1980. Abstract only. v. 70 (6). p. 572. (NAL Call No.: 464.8 P56).

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### **Release, dispersal, and recovery of a laboratory-selected strain of the walnut aphid parasite *Trioxys pallidus* (Hymenoptera: Aphididae) resistant to azinphosmethyl.**

JEENAI. Hoy, M.A. Cave, F.E.; Beede, R.H.; Grant, J.; Krueger, W.H.; Dison, W.H.; Spollen, K.M.; Barnett, W.W.; Hendricks, L.C. Lanham, Md. : Entomological Society of America. A strain of *Trioxys pallidus* Haliday, selected in the laboratory for resistance to azinphosmethyl, was mass reared and released into five commercial walnut blocks in California to determine whether the strain could survive field applications of azinphosmethyl or methidathion, persist, and parasitize the walnut aphid, *Chromaphis juglandicola* Kaltenbach. Approximately 75,000 parasites were reared on potted walnut trees in a University of California greenhouse in Berkeley; releases were made after azinphosmethyl applications in three sites, after methidathion application in one site, and just before a methidathion application in one site. Colonies of *T. pallidus* collected from each orchard before the releases were tested with a discriminating dose of azinphosmethyl to estimate resistance levels of the wild population. Samples of *T. pallidus* were collected once or twice from each block after releases were made and from adjacent walnut blocks in two sites. The samples were then tested with azinphosmethyl. The high survival rates of the parasites indicated that the strain of *T. pallidus* resistant to azinphosmethyl established and persisted through the growing season in four of the five walnut blocks and dispersed to nearby nonrelease blocks in two of two sites sampled. Counts of aphids and mummies support the conclusion that the laboratory-selected strain survived applications of azinphosmethyl or methidathion, parasitized aphids, and persisted within the release and nearby nonrelease sites during the 1988 growing season. Journal of economic entomology. Feb 1990. v. 83 (1). p. 89-96. Includes references. (NAL Call No.: DNAL 421 J822).

1425

### **Reproductive response of *Aphelinus perpallidus* (Hymenoptera: Aphelinidae) to age of its parent and density of its host, *Monellia caryella* (Homoptera: Aphidae).**

EVETEX. Bueno, R. Jr. Stone, J.D. College Park, Md. : Entomological Society of America. Environmental entomology. Aug 1987. v. 16 (4). p. 877-880. Includes references. (NAL Call No.: DNAL QL461.E532).

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### **Research approaches for biological control of pecan aphids.**

Tedders, W.L. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1986. v. 63. p. 69-71. Includes references. (NAL Call No.: DNAL 94.69 T31).

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### **Resurgence and insecticide resistance problems in pecan aphid management.**

Dutcher, J.D. Htay, T. Athens, Ga. : The Stations. Special publication - University of Georgia, Agriculture Experiment Stations. In the series analytic: Aphids and phylloxeras of pecan / edited by W.W. Neel, W.L. Tedders, and J.D. Dutcher. Dec 1985. (38). p. 17-29. Includes references. (NAL Call No.: DNAL HD1775.G4G43).

1428

### **RF dielectric heating for pecan weevil control (*Curculio caryae*).**

Nelson, S.O. Payne, J.A. St. Joseph, Mich., The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Mar/Apr, 1982. v. 25 (2). p. 456-458, 464. Includes 20 ref. (NAL Call No.: 290.9 AM32T).

1429

### **The role of beneficial insects in pecan IPM (insect pest management) programs (as predators, biological control).**

Gorsuch, C.S. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1984. 1984. (77th). p. 71-75. ill. (NAL Call No.: 94.69 G29).

1430

### **Sampling mites in almonds. I. Within-tree distribution and clumping pattern of mites with comments on predator-prey interactions.**

HILGA. Wilson, L.T. Hoy, M.A.; Zalom, F.G.; Smilanick, J.M. Berkeley : The Station. Hilgardia - California Agricultural Experiment



Station. June 1984. v. 52 (7). p. 1-13.  
Includes references. (NAL Call No.: DNAL 100 C12H).

1431

**Sampling mites in almonds. II. Presence-absence sequential sampling for Tetranychus mite species.**

HILGA. Zalom, F.G. Hoy, M.A.; Wilson, L.T.; Barnett, W.W. Berkeley : The Station. Hilgardia - California Agricultural Experiment Station. June 1984. v. 52 (7). p. 14-24. Includes references. (NAL Call No.: DNAL 100 C12H).

1432

**Sanitation and early harvest for the management of navel orangeworm (Pests of almonds).**

Zalom, F. Weakley, C.; Connell, J. Sacramento, California Almond Growers Exchange. Almond facts. Nov/Dec 1981. v. 46 (6). p. 44-45. ill. (NAL Call No.: 280.28 AL62).

1433

**Scarifying agents and pathogens screened against pecan weevil larvae in the laboratory.**

Ring, D.R. Dutcher, J.D.; Payne, J.A.; Snow, J.W. Lanham : Entomological Society of America. Insecticide and acaricide tests. Includes abstract. 1988. v. 13. p. 85-86. (NAL Call No.: DNAL SB950.A1I49).

1434

**Seasonal abundance and overwintering mortality in populations of lepidopterous leafminers of pecan.**

JESCEP. Heyerdahl, R.H. Dutcher, J.D. Tifton, Ga. : Georgia Entomological Society. Journal of entomological science. July 1990. v. 25 (3). p. 394-408. Includes references. (NAL Call No.: DNAL QL461.G4).

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**Seasonal occurrence of the hickory shuckworm in pecan.**

Calcote, V.R. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 55-62. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1436

**Second chance on control of pecan nut casebearer (*Acrobasis nuxvorella*).**

Calcote, V.R. Hyder, D.E. College Station, Tex., The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1980. v. 58. p. 45-46. 1 ref. (NAL Call No.: 94.69 T31).

1437

**Selection improves Sevin resistance in spider mite predator (*Metaseiulus* (= *Typhlodromus*) *occidentalis*). Field trials have documented the genetic improvement of an important biological control agent in almond orchards (*Tetranychus* sp.).**

Roush, R.T. CA. Hoy, M.A. Berkeley, The Station. California agriculture. California. Agricultural Experiment Station. Jan 1980. v. 34 (1). p. 11-14. ill. (NAL Call No.: 100 C12CAG).

1438

**Sequential sampling plan for integrated pest management of pecan nut casebearer (*Lepidoptera*: *Pyrilidae*).**

JEENAI. Ring, D.R. Harris, M.K.; Payne, J.A. Lanham, Md. : Entomological Society of America. Sequential sampling plans allow integrated pest management (IPM) decisions to be made quickly and precisely, and degree-day prediction models identify the rate of development of populations. Combining these IPM tools allows the user to sample a population at a particular point in its development and extrapolate the result into the future to determine whether or not management action is warranted. A degree-day prediction model developed earlier for the first summer generation of pecan nut casebearer, *Acrobasis nuxvorella* Neunzig, was coupled with a sequential sampling plan developed in this study and tested in 25 field trials. Samples were taken in each trial when the degree-day model predicted that oviposition was 10% complete. Sampling results were extrapolated to determine if the subsequent population would damage 10% or more of a harvestable pecan crop. If not, no management action was taken; if so, management was conducted while leaving an untreated check. Sixteen decisions not to take action and nine to take action were made in the trials. Subsequent damage did not exceed 10% infestation of the nut clusters in the no-action decision group and did exceed that level in eight of the nine action decision groups. The one error occurred in a take-action trial where the infestation in the check average 9.5%. This novel application of IPM technology achieved by combining two standard techniques is superior to but no more difficult than present strategies for control of this key pest of pecans. Journal of economic entomology. June 1989. v. 82 (3). p. 906-909. Includes references. (NAL Call No.: DNAL 421 J822).



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### **Soil application of carbaryl for control of the pecan weevil.**

Payne, J.A. Dutcher, J.D.; Ellis, H.C.  
Starkville, Miss. : The Association.  
Proceedings ... annual convention -  
Southeastern Pecan Growers Association. 1985.  
(78th). p. 65-68. Includes references. (NAL  
Call No.: DNAL 94.69 G29).

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### **Some effects of Phylloxera notabilis galls on pecan foliage.**

Andersen, P.C. Mizell, R.F. III. Starkville,  
Miss. : The Association. Proceedings of the  
annual convention - Southeastern Pecan Growers  
Association. Meeting held in March, 1987,  
Savannah, Georgia. Mar 1987. (80th). p. 89-93.  
Includes references. (NAL Call No.: DNAL 94.69  
G29).

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### **Sooty mold fungus on pecan foliage suppresses light penetration and net photosynthesis.**

HJHSA. Wood, B.W. Tedders, W.L.; Reilly, C.C.  
Alexandria, Va. : American Society for  
Horticultural Science. HortScience. Oct 1988.  
v. 23 (5). p. 851-853. Includes references.  
(NAL Call No.: DNAL SB1.H6).

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### **Sound management vital to minimize impact of pecan nut casebearer.**

PEQUA. Harris, M.K. Jackman, J.A.; Ring, D.R.  
Bryan, Tex. : Texas Pecan Growers Association.  
Pecan south including pecan quarterly. Nov/Dec  
1988. v. 22 (6). p. 4-6, 18-20. ill. Includes  
references. (NAL Call No.: DNAL SB401.A1P4).

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### **Southeastern insect control.**

PEQUA. Dutcher, J.D. Bryan : Texas Pecan  
Growers Association. Pecan south including  
pecan quarterly. May/July 1984. v. 18 (2). p.  
4, 6-8. ill. Includes references. (NAL Call  
No.: DNAL SB401.A1P4).

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### **Southeastern insect control: growers mix control tactics for individualized strategy.**

PEQUA. Dutcher, J.D. Bryan : Texas Pecan  
Growers Association. The pecan quarterly.  
May/July 1984. v. 18 (2). p. 4-8. ill. Includes  
9 references. (NAL Call No.: DNAL SB401.A1P4).

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### **Southeastern shakings.**

PEQUA. Goff, B. Bryan, Tex. : Texas Pecan  
Growers Association. Pecan south including  
pecan quarterly. Sept/Oct 1988. p. 8, 34. ill.  
(NAL Call No.: DNAL SB401.A1P4).

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### **Southern fire ant (Hymenoptera:Formicidae) damage to harvested almonds in California.**

JEENAI. Zalom, F.G. Bentley, W.J. College Park,  
Md. : Entomological Society of America. Journal  
of economic entomology. Apr 1985. v. 78 (2). p.  
339-341. ill. Includes references. (NAL Call  
No.: DNAL 421 J822).

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### **Spring into summer: a checklist for walnut growers.**

Herkert, R.E. Pleasanton, Calif. : Sun-Diamond  
Growers of California. Sun-diamond grower.  
Spring 1988. v. 7 (1). p. 24-27. ill. (NAL Call  
No.: DNAL SB401.A1D5).

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### **Status of existing and potential insecticides for pecan pest management.**

Payne, J.A. Dutcher, J.D.; Ellis, H.C.  
Starkville, Miss. : The Association.  
Proceedings ... annual convention -  
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Includes list of current and candidate foliar  
pesticides for use on pecans. 1986. (79th). p.  
143-146. Includes references. (NAL Call No.:  
DNAL 94.69 G29).

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### **Stink bugs: proper management can control kernel spots, black pit.**

PEQUA. Stein, L.A. Bryan : Texas Pecan Growers  
Association. Pecan south including pecan  
quarterly. Sept 1985. v. 19 (5). p. 15-18.  
Includes 7 references. (NAL Call No.: DNAL  
SB401.A1P4).

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### **Studies on conidia release by the entomogenous fungi Beauveria bassiana and Metarhizium anisopliae (Deuteromycotina: Hyphomycetes) from adult pecan weevil (Coleoptera: Curculionidae) cadavers (Curculio caryae, Biological control of insect pests).**

Gottwald, T.R. EVETB. Tedders, W.L. College Park  
: Entomological Society of America.  
Environmental entomology. Dec 1982. v. 11 (6).  
p. 1274-1279. ill. Includes references. (NAL  
Call No.: QL461.E532).

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**Suppression of pecan net photosynthesis by crop oils.**

GENSAB. Wood, B.W. Payne, J.A. Tifton, Ga. : The Entomological Science Society. Journal of Entomological Science. July 1986. v. 21 (3). p. 201-205. Includes references. (NAL Call No.: DNAL QL461.G4).

1452

**Suppression of pecan weevil (Coleoptera: Curculionidae) populations with entomopathogenic fungi (*Beauveria bassiana*, *Metarhizium anisopliae*, *Curculio caryae*, biological control of insect pests).**  
Gottwald, T.R. EVETB. Tedders, W.L. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 471-474. Includes references. (NAL Call No.: QL461.E532).

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**Susceptibility of *Meterorus hyphantriae* riley to methyl parathion.**

SENTD. Aguayo, M.I. Villaneueva, F.R. College Station, Tex. : Southwestern Entomological Society. The Southwestern entomologist. June 1985. v. 10 (2). p. 107-109. Includes references. (NAL Call No.: DNAL QL461.S65).

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**Synthesis and validation of a degree-day model for navel orangeworm (Lepidoptera: Pyralidae) development in California almond orchards.**  
EVETEX. Sanderson, J.P. Barnes, M.M.; Seaman, W.S. Lanham, Md. : Entomological Society of America. Field studies were conducted during three seasons to characterize further the degree-day (DD) accumulation for cohort development of the navel orangeworm, *Ameloyis transitella* (Walker), on mummy almonds. The first substantial adult emergence (3% emergence) occurred after an average of 514 DD (SD = 35.05), and ranged from 490 to 572 DD. Fifty percent emergence occurred after 570-639 DD, with an average value of 607 DD (SD = 29.23). Degree-day accumulation for male development was consistently less than that for females. Predictions of the onset of emergence of the first and second generation moths, based on the degree-day studies in mummies and on previous data on new-crop almonds, were evaluated against data collected in seven orchards. These data consisted of egg trapping counts, orchard temperature measurements, and dates of hullsplit initiation. The onset of second-generation moth emergence, which engenders the very damaging third generation, depended on the time of the onset of the first-generation moth flight in relation to the occurrence of hullsplit initiation, at which time the new crop becomes susceptible to infestation. The degree-day information adequately forecasts the onset of the

second-generation moth flight period in six of the seven data sets. Environmental entomology. Aug 1989. v. 18 (4). p. 612-617. Includes references. (NAL Call No.: DNAL QL461.E532).

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**Synthetic pyrethroids and pecan insect pest management.**

Dutcher, J.D. Atlanta : Publications South, Inc. Pecan south. Nov 1983. v. 10 (6). p. 12-14. ill. Includes references. (NAL Call No.: SB401.P4P4).

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**Toxicity of benzoylphenyl ureas and thuringiensin to *Trioxys pallidus* (Hymenoptera: Braconidae) and the walnut aphid (Homoptera: Aphididae).**

JEENAI. Purcell, M. Granett, J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Oct 1985. v. 78 (5). p. 1133-1137. Includes references. (NAL Call No.: DNAL 421 J822).

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**Toxicity of pesticides used on walnuts to a wild and azinphosmethyl-resistant strain of *Trioxys pallidus* (Hymenoptera: Aphididae).**  
JEENAI. Hoy, M.A. Cave, F.E. Lanham, Md. : Entomological Society of America. Effects of azinphosmethyl, chlorpyrifos, endosulfan, methidathion, or phosalone on a wild and a laboratory-selected strain of *Trioxys pallidus* Haliday were tested. A clip cage was used to confine insects on walnut foliage treated in the field. Mortality of adults was assessed after 4, 8, 18, 24, 48, and 72 h at 27 +/- 1.5 degrees C. Residues ranged from 1 to 35-d-old. One-day-old residues of chlorpyrifos were the most toxic to the wild colony; 1-d-old residues of azinphosmethyl, methidathion, phosalone, and endosulfan were progressively less toxic. Azinphosmethyl residues remained more toxic to both colonies for the longest time of any of the pesticides tested. Methidathion residues were toxic to the wild colony after 28 d (survival at 72 h, 56%), but survival of the Selected strain on 14-d-old residues was 94% even after 72 h of exposure. Residues of phosalone and endosulfan exhibited low toxicity (survival greater than 86%) to both strains after 14 d. The azinphosmethyl-selected strain of *T. pallidus* survived all pesticide residues significantly better than the wild strain (except the 14-d-old endosulfan residues, on which both survived equally well), indicating that cross-resistances developed through artificial selection with azinphosmethyl. Implications of the new azinphosmethyl-resistant strain of *T. pallidus* for walnut pest management and orchard management are discussed. Journal of economic entomology. Dec 1989. v. 82 (6). p. 1585-1592. Includes references. (NAL Call No.: DNAL 421 J822).

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**Trial insect management system for pecans.**  
Ball, J.C. Halsey, L.A. Atlanta, Ga.  
Publications South. Pecan South. Mar 1979. v. 6  
(2). p. 38-40. ill. (NAL Call No.: SB401.P4P4).

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**Trunk injection for pecan tree health.**  
Worley, R.E. Littrell, R.H.; Dutcher, J.D.  
College Station, Tex. : The Association.  
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ill. Includes references. (NAL Call No.: DNAL  
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**Trunk injection gave poor control of  
phylloxera.**  
PEQUA. Calcote, V.R. Bryan, Tex. : Texas Pecan  
Growers Association. Pecan south including  
pecan quarterly. May/Apr 1989. v. 23 (2). p. 4,  
6, 9. ill. Includes references. (NAL Call No.:  
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**Trunk injection of dicotophos and trunk  
implantation of acephate to control foliar  
pecan (insects) pests.**  
Dutcher, J.D. Worley, R.E.; Littrell, R.H.  
Urbana, Ill., International Society of  
Arboriculture. Journal of arboriculture. Nov  
1980. v. 6 (11). p. 294-297. 5 ref. (NAL Call  
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**A trunk injection technique for control of  
insect and mite pests of pecan.**  
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R.H. Hamden, Conn. : The Association. Annual  
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references. (NAL Call No.: DNAL 94.69 N81).

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**Trunk injections may offer solution for small  
plantings.**  
PEQUA. Worley, R.E. Littrell, R.H.; Dutcher,  
J.D. Bryan : Texas Pecan Growers Association.  
The pecan quarterly. May/July 1984. v. 18 (2).  
p. 18-21. Includes 15 references. (NAL Call  
No.: DNAL SB401.A1P4).

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**Twig girdler, *Oncideres cingulata* (Say),  
attacks terminals of plantation-managed pecans  
(*Carya illinoensis*).**  
Kennedy, H.E. Solomon, J.D.; Krinard, R.M. New  
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**Two difficult pecan insect problems--aphids and  
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(NAL Call No.: 94.69 G29).

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McVay, J.R. Dutcher, J.D.; Payne, J.A. Athens,  
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**Using low-volume and dilute pesticide sprayers  
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**Variability in toxicity of propargite to spider mites (Acari: Tetranychidae) from California almonds.**

JEENAI. Keena, M.A. Granett, J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1985. v. 78 (6). p. 1212-1216. maps. Includes references. (NAL Call No.: DNAL 421 J822).

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**Variable resistance of filbert aphid (Homoptera: Aphididae) to insecticides in the Willamette Valley, Oregon.**

JEENAI. Katundu, J.M. Aliniyazee, M.T. Lanham, Md. : Entomological Society of America. Development of resistance in the filbert aphid, *Myzocallis coryli* (Goetze), to commonly used insecticides was investigated. Data suggest that *M. coryli* populations have become resistant to many insecticides. Resistance to endosulfan, carbaryl, diazinon, phosalone, and oxydemetonmethyl was detected. Resistance levels varied from 1.5- to 4,090-fold for carbaryl, 1.2- to 288-fold for diazinon, 1.8- to 50-fold against endosulfan, 1.7- to 49,069-fold against phosalone, and 3.4- to 112.4-fold against oxydemetonmethyl. Some seasonal variations were noticed. With some exceptions, summer and fall populations were generally more resistant to pesticides than the spring populations. Although development of resistance on a regional basis was not evident, a more localized (orchard by orchard) resistance was observed. This pattern suggests limited aphid movement and gene flow. Journal of economic entomology. Feb 1990. v. 83 (1). p. 41-47. Includes references. (NAL Call No.: DNAL 421 J822).

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**Virulence of (the fungus) *Beauveria bassiana* mutants for the pecan weevil (*Curculio caryae*, biological control).**

Champlin, F.R. Cheung, P.Y.K.; Pekrul, S.; Smith, R.J.; Burton, R.L.; Grula, E.A. College Park, Md., Entomological Society of America. Journal of economic entomology. Oct 1981. v. 74 (5). p. 617-621. ill. 13 ref. (NAL Call No.: 421 J822).

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**Walnut husk fly.**

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**Walnut husk fly.**

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**Walnut husk fly (Damage to Juglans, detection and control).**

Retan, A.H. Pullman, Wash. : The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Feb 1982. Feb 1982. (0904). 4 p. ill. (NAL Call No.: 275.29 W27P).

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**Walnut husk fly (Diptera: Tephritidae): evaluation of traps for timing of control measures and for damage predictions.**

JEENAI. Riedl, H. Barnett, W.W.; Coates, W.W.; Coviello, R.; Joos, J.; Olson, W.H. Lanham, Md. : Entomological Society of America. In 2 yr of field test in commercial walnut, *Juglans regia* L., orchards in northern California, an ammonium carbonate-baited fluorescent yellow Pherocon AM rectangle was approximately 10 times more attractive to adult walnut husk flies, *Rhagoletis completa* Cresson, than the standard Pherocon AM trap or an unbaited green sphere during most of the season. The green sphere was not attractive in early season when husk flies began to emerge but increased in attractiveness relative to the other traps as the season progressed. Once the sphere began to catch husk flies, it was as effective as the standard Pherocon AM trap. Adult flies began to respond to ammonium carbonate-baited and standard AM traps long before (42 and 44 d, respectively) females oviposited. Catches on green sphere traps, on the other hand, were closely synchronized with egg laying, becoming attractive shortly before or at the time nuts were attacked. The interval from first oviposition to harvest was the same on early- and late-maturing varieties. Cumulative catch on the ammonium carbonate-baited Pherocon AM trap was a better predictor for the infestation level at harvest than catches on the green sphere. These studies suggest that the green sphere is a better indicator for the timing of chemical treatments, whereas the ammonium carbonate-baited yellow rectangle appears to be more reliable for evaluating the damage potential of a husk fly population. Journal of economic entomology. Aug 1989. v. 82 (4). p. 1191-1196. Includes references. (NAL Call No.: DNAL 421 J822).

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### **Walnut spray schedule for New Jersey home orchards.**

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PNGOA. Riggert, C. Olson, J. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. Meeting held on January 27, 1988, Portland, Oregon. 1988. (73rd). p. 21-23, 25-26. (NAL Call No.: DNAL 94.69 W52).

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### **Xylosandrus germanus (Blandf.) (Coleoptera: Scolytidae), a new pest of black walnut (Juglans nigra): a review of its distribution, host plants, and environmental conditions of attack (Includes association with Fusarium species).**

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### **Yield of subsequent crop when tree shaking is used to remove mummy almonds for navel orangeworm (Lepidoptera: Pyralidae) control.**

JEENAI. Curtis, C.E. Sibbett, G.S.; Gerdt, M.; Clark, J.D. Lanham, Md. : Entomological Society of America. Journal of economic entomology. June 15, 1983. v. 76 (3). p. 632-633. Includes references. (NAL Call No.: DNAL 421 J822).

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### **1979 insecticide evaluation results for pecans in Georgia.**

Dutcher, J.D. AR-SO. Payne, J.A. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. p. 55-59. 3 ref. (NAL Call No.: 94.69 G29).

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### **The 1980 Texas pecan pest management demonstration program (Insect and disease losses).**

Cooper, J.N. College Station : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1983. 1983. (60th). Texas ill. (NAL Call No.: 94.69 T31).

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### **1987 commercial pecan--disease, insect and weed control guide.**

Patterson, M.G. Everest, J.W.; Goff, W.D. Auburn, Ala. : The Service. Circular ANR - Cooperative Extension Service, Auburn University. Dec 1986. (27). 15 p. (NAL Call No.: DNAL S544.3.A2C47).

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### **1988 commercial pecan. Disease, insect, & weed control guide.**

Gazaway, W. Latham, A.; McVay, J.R.; Goff, B.; Estes, P.; Patterson, M.G.; Everest, J.W. Auburn, Ala. : The Service. Circular ANR - Cooperative Extension Service, Auburn University. In subseries: Integrated Pest Management. Jan 1988. (27). 15 p. (NAL Call No.: DNAL S544.3.A2C47).

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### **1990 commercial pecan: insect, disease, and weed control recommendations.**

Auburn, Ala. : The Service. Circular ANR - Alabama Cooperative Extension Service, Auburn University. In subseries: Integrated Pest Management. Feb 1990. (27). 13 p. Includes references. (NAL Call No.: DNAL S544.3.A2C47).

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### **1990 insecticide recommendations for Arkansas / prepared by Donald R. Johnson and Bill F. Jones .**

Johnson, Donald R. Jones, Bill F. Fayetteville, Ark. : Cooperative Extension Service, University of Arkansas, 1990? . Abstract: This guide contains 1990 insecticide recommendations for Arkansas for insect pests of specific animals, field crops, fruit and nuts, and vegetables. Additionally, it lists suggested insecticides for recreation areas, flowers, trees and shrubs, turfgrass, gold courses, commercial Christmas trees, and household pests. It provides basic information about insecticides, calibration, and addresses and telephone numbers of Poison Control Centers in Arkansas. Cover title.~ "United States Department of Agriculture and county governments cooperating."~ Includes index.~ "MP144-9M-1-90RV"--P. 2 of cover. 135 p. : ill. ; 28 cm. (NAL Call No.: DNAL SB950.2.A82J6).

1198 1199

### **Behavior of walnut caterpillar (Datana integerrima) larvae in field conditions (in central and southern Illinois). Behavior of walnut caterpillar (Datana integerrima) larvae in field conditions (in central and southern Illinois).**

Farris, M.E. Farris, M.E. Appleby, J.E.

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1291 1292

**Food preferences of walnut caterpillar (*Datana integerrima*) larvae. Food preferences of walnut caterpillar (*Datana integerrima*) larvae.**

Farris, M.E. Farris, M.E. Appleby, J.E.  
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**A preliminary report on the bionomics of Fulgoroidea on black walnut (*Juglans nigra*, -in southern Illinois) with emphasis on *Anormenis septentrionalis* (*Spinola*) (*Homoptera*). A preliminary report on the bionomics of Fulgoroidea on black walnut (*Juglans nigra*, in southern Illinois) with emphasis on *Anormenis septentrionalis* (*Spinola*) (*Homoptera*).**

Wilson, S.W. Wilson, S.W. McPherson, J.E.  
McPherson, J.E. St. Paul, Minn., The Station.  
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1472 1473

**Walnut caterpillar (*Datana integerrima*) larval survival at different population levels and on different leaflet surfaces of black walnut (*Juglans nigra*). Walnut caterpillar (*Datana integerrima*) larval survival at different population levels and on different leaflet surfaces of black walnut (*Juglans nigra*).**

Farris, M.E. Farris, M.E. Appleby, J.E.  
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**Current status of root knot nematodes on pecans and their control.**

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**Nematode management in Arizona fruit, nut and vine crops.**

Nigh, E. Tucson, Ariz. : The Service. Publication - Cooperative Extension Service, University of Arizona, College of Agriculture. Oct 1986. (8654). 2 p. (NAL Call No.: DNAL S544.3.A6C6).

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**Fungicide control of pecan diseases, 1980** (Pecan (*Carya illinoensis* 'Cherokee', 'Shoshoni'), pecan scab; *Fusicladium effusum*, vein spot; *Gnomonia nerviseda*). Sanderlin, R.S. Hunt, A.S. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 53. (NAL Call No.: 464.9 AM31R).

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**Fungicide control of pecan diseases, 1981** (Pecan (*Carya illinoensis* 'Cherokee', 'Shoshoni'), pecan scab; *Fusicladium effusum*, vein spot; *Gnomonia nerviseda*). Sanderlin, R.S. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1982. v. 37. p. 53. (NAL Call No.: 464.9 AM31R).

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**Fungicide control of pecan diseases, 1982** (Scab, *Cladosporium caryigenum* and vein spot, *Gnomonia nerviseda* on *Carya illinoensis*). Sanderlin, R.S. FNETD. Broach, K.E. (s.l.): The Society. Fungicide and nematocide tests: results - American Phytopathological Society. 1983. v. 38. p. 130-131. (NAL Call No.: 464.9 AM31R).

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**Fungicide control of pecan scab, 1979** (Pecan (*Carya illinoensis*, 'Cherokee' and 'Mahan'), pecan scab; *Fusicladium effusum*). Sanderlin, R.S. Hunt, A.S. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 52-53. (NAL Call No.: 464.9 AM31R).

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**Fungicide control of Phytophthora root rot and a molding-root rot complex of black walnut seedlings, 1980** (Walnut, black (*Juglans nigra*), *Phytophthora* root rot; *Phytophthora citricola*, molding-root rot complex; various fungi). Green, R.J. Jr. Plourde, D.F. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1981. v. 36. p. 133. (NAL Call No.: 464.9 AM31R).

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Graves, C.H. Neel, W.W.; Coats, R.E. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 141-146. 6 ref. (NAL Call No.: 94.69 G29).

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**Fungicides and fungicide application systems for managing pecan diseases.**

Miller, R.W. Goff, W.D.; Bruens, J.E.; Teeter, K.M.; Drye, C.E. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 169-175. 15 ref. (NAL Call No.: 94.69 G29).

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Miller, R.W. Goff, W.D.; Bruens, J.E.; Teeter, K.M.; Drye, C.E. Atlanta, Ga., Publications South. Pecan South. June 1980. v. 7 (4). p. 30-31, 33-36. 15 ref. (NAL Call No.: SB401.P4P4).

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**Fungicides and fungicide application systems for managing pecan diseases, 1979** (Pecan (*Carya illinoensis*, 'Stuart' and 'Schley'), scab; *Fusicladium effusum*, downy spot; *Mycosphaerella caryigena*, leaf scorch).

Goff, W.D. Miller, R.W.; Bruens, J.E.; Teeter, K.M. (s.l.), The Society. Fungicide and nematocide tests; results - American Phytopathological Society. 1980. v. 35. p. 50. (NAL Call No.: 464.9 AM31R).

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**Fungicides for control of pecan scab, vein spot, and downy spot.**

Graves, C.H. Jr. Coats, R.E. Starkville, Miss.: The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 73-78. Includes references. (NAL Call No.: DNAL 94.69 G29).



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**Impact of pecan leaf blotch on gas exchange of pecan leaves.**

PLDIDE. Andersen, P.C. Aldrich, J.H.; Gould, A.B. St. Paul, Minn. : American Phytopathological Society. Plant disease. Mar 1990. v. 74 (3). p. 203-207. Includes references. (NAL Call No.: DNAL 1.9 P69P).

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**Implications of eastern filbert blight and leaved orchards.**

PNGOA. Riggert, C. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1989. (74th). p. 40-43. (NAL Call No.: DNAL 94.69 W52).

1582

**Influence of single applications of fungicides on net photosynthesis of pecan (*Carya illinoensis*, adverse effects of foliar sprays for control of *Caldosporium caryigenum*).**

Wood, B. Gottwald, T.; Payne, J. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 427-428. Includes references. (NAL Call No.: 1.9 P69P).

1583

**The influence of tree spacing and fungicide use on the susceptibility of 'Western' to pecan scab.**

Cooper, J.N. Johnson, J.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1986. v. 63. p. 37-38. (NAL Call No.: DNAL 94.69 T31).

1584

**Influence of wetness period and temperature on infection and development of shot-hole disease of almond caused by *Wilsonomyces carpophilus*.**

PHYTA. Shaw, D.A. Adaskaveg, J.E.; Ogawa, J.M. St. Paul, Minn. : American Phytopathological Society. Temperature and duration of wetness period during the inoculation period influenced the development of shot-hole disease on almond leaves caused by *Wilsonomyces carpophilus* (*Stigmata carpophila*). In controlled environment studies, a 14-hr wetness period resulted in 0.1 and 45.0 lesions per leaf after

10 days at 8 and 22 C, respectively. Extended wetness periods during the infection period increased the number of lesions per leaf regardless of the temperature. Numbers of lesions increased as temperature was increased from 8 to 22 C for wetness periods greater than 12 hr. At 8 C, 4.7 and 45.6 lesions per leaf developed after wetness periods of 30 and 48 hr, respectively, and, at 15 C, 110.0 lesions developed at 15 C after a wetness period of 28 hr. Temperature after the infection period influenced symptom expression, the rate of lesion development, and lesion abscission, but not the number of lesions formed. Lesion abscission, or shot-hole, was significantly higher at 22 C (72.0% of lesions showing abscission) than at 8 C (0.3%) and 15 C (3.9%). Additional wetness period after an initial infection period resulted in a greater number of lesions and a higher disease index after 8 days at 8, 15, and 22 C and the formation of sporodochia after 16 days at 22 C. Field studies under ambient day and night temperatures and wetness periods of 10-12 hr and 14-16 hr resulted in an average of 6.6 and 16.0 lesions per leaf, respectively. In field studies, additional wetness periods also resulted in an increase in leaf infections and higher disease index. Germination percentages of conidia of *W. carpophilus* averaged 85.3% in 4 hr and 99.2% in 8 hr at temperatures between 10 and 30 C. Isolates tested had similar pathogenic reactions on almond leaves of cultivars Ne Plus Ultra (chamber tests), Carmel, Mission, and Nonpareil (chamber and field tests). A preliminary predictive model for disease was developed based on temperature and wetness period duration when inoculum was present. Phytopathology. Aug 1990. v. 80 (8). p. 749-756. ill. Includes references. (NAL Call No.: DNAL 464.8 P56).

1585

**Inhibition of photosynthesis in pecan leaves by fungicides.**

PLDRA. Wood, B.W. Payne, J.A.; Gottwald, T.R. St. Paul, Minn. : American Phytopathological Society. Plant disease. Nov 1985. v. 69 (11). p. 997-998. Includes 14 references. (NAL Call No.: DNAL 1.9 P69P).

1586

**Innovative pecan management in Georgia.**

Crocker, T.F. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 46-47. (NAL Call No.: DNAL 94.69 T31).

## (PLANT DISEASES - FUNGAL)

1587

### Laboratory and field testing of fungicides against *Mycosphaerella caryigena*.

AAREEZ, Goff, W.D. Miller, R.W. New York, N.Y. : Springer. Activity of 46 fungicides or combinations against *Mycosphaerella caryigena* Demaree and Cole, the fungus causing downy spot disease of pecan (*Carya illinoensis* (Wang.) K. Koch), was determined by cellophane transfer bioassay. At concentrations of 1.0 ppm, sodium omadine, thiophanate methyl + thiram, captafol, sulfoanilide, N-(1,1,2,2-tetrachloro-2-fluoro-ethylthio)-methane, chlorothalonil, thiophanate ethyl + anilazine, or cycloheximide each completely prevented germination of ascospores or conidia of the fungus. In field trials, etaconazole, alternating sprays of benomyl and fentin hydroxide, and tank mixtures of thiophanate methyl with either dodine or mancozeb, all resulted in 100% control of downy spot when 9-10 sprays were applied full season. Seven sprays of fentin hydroxide applied after 240 accumulated hours of 90% relative humidity controlled the disease as well as 10 sprays on a time-based schedule. Six sprays with etaconazole in early season resulted in better downy spot control than did 10 sprays full season with fentin hydroxide. Applied agricultural research. Spring 1990. v. 5 (2). p. 134-141. Includes references. (NAL Call No.: DNAL S539.5.A77).

1588

### Laboratory and greenhouse techniques for evaluating selected fungicides against *Cristulariella moricola* on pecan leaves.

PLDIDE, Latham, A.J. St. Paul, Minn. : American Phytopathological Society. Plant disease. Nov 1987. v. 71 (11). p. 1010-1014. ill. Includes references. (NAL Call No.: DNAL 1.9 P69P).

1589

### Management of pecan fruit and foliar diseases with fungicides (*Fusicladium effusum*, *Mycosphaerella caryigena*, *Cristulariella pyramidalis*, *Microsphaera alni*).

Littrell, R.H. Bertrand, P.F. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1981. v. 65 (9). p. 769-774. 20 ref. (NAL Call No.: 1.9 P69P).

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### Management of the brown rot disease on stone fruits and almonds in California.

NYAEA, Ogawa, J.M. Manji, B.T.; Sonoda, R.M. Geneva, N.Y. : The Station. Special report - New York State Agricultural Experiment Station, Geneva. Presented at the "Proceedings--Brown Rot of Stone Fruits Workshop," July 11, 1983, Ames, Iowa. Jan 1985. (55). p. 8-15. Includes 26 references. (NAL Call No.: DNAL S95.E24).

1591

### Managing canker diseases of almonds.

ALMFA, Bostock, R.M. Doster, M.A. Sacramento, Calif. : California Almond Growers Exchange. Almond facts. Mar/Apr 1987. . v. 52 (2). p. 36-37. ill. (NAL Call No.: DNAL 280.28 AL62).

1592

### Measurement of leaf wetness as a means to determine fungicide application timing for pecan scab (*Fusicladium effusum*) control. II.

McVay, J.R. Gazaway, W.S. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 121-125. 5 ref. (NAL Call No.: 94.69 G29).

1593

### Measurement of leaf wetness as a means to determine fungicide application timing for pecan scab (*Fusicladium effusum*) control.

Gazaway, W.S. McVay, J.R. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 106-109. 5 ref. (NAL Call No.: 94.69 G29).

1594

### Modified spray schedules for control of (pecan) scab (*Fusicladium effusum*) in Georgia and Texas.

Hunter, R.E. Payne, J.A. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 61-66. 4 ref. (NAL Call No.: 94.69 G29).

1595

### Mycoflora (*Alternaria*, *Penicillium*, *Aspergillus*) and market quality of chestnuts treated with hot water for control of the chestnut weevil.

Wells, J.M. Payne, J.A. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 533. (NAL Call No.: 464.8 P56).

1596

### Mycoflora and market quality of chestnuts treated with hot water to control the chestnut weevil (*Curculio sayi*).

Wells, J.M. AR-SO, Payne, J.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Nov 1980. v. 64 (11). p. 999-1001. 13 ref. (NAL Call No.: 1.9 P69P).



## (PLANT DISEASES - FUNGAL)

1597

**New approaches for controlling pecan scab in the future (*Cladosporium caryigenum*).**  
Littrell, R.H. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 49-51. Includes references. (NAL Call No.: 94.69 G29).

1598

**New pecan cultivar, Pawnee, released by USDA.**  
NONGA. Thompson, T. Hunter, R. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1985. (76th). p. 61-64. ill. (NAL Call No.: DNAL 94.69 N81).

1599

**Out of the shell.**  
Keough, B. Emmaus, Pa. : Rodale Press, Inc. Organic gardening. Sept/Oct 1990. v 37 (7). p. 26-28, 30-32. ill. Includes references. (NAL Call No.: DNAL S605.5.074).

1600

**Pecan fungicide efficacy 1981 (Benomyl (Benlate), dodine (Cyprex), and fentin hydroxide (De-Ter), South Carolina).**  
Miller, R.W. Drye, C.E.; Price, D.; Wilson, J.; Chapman, M. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 81-86. Includes 12 ref. (NAL Call No.: 94.69 G29).

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**Pecan fungicide efficacy 1982.**  
Miller, R.W. Drye, C.E.; Golden, J.K.; Wilson, J.; Chapman, M. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 107-110. Includes references. (NAL Call No.: 94.69 G29).

1602

**Pecan fungicide efficacy 1985.**  
Golden, J.K. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1986. (79th). p. 121-124. Includes references. (NAL Call No.: DNAL 94.69 G29).

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**Pecan fungicide survey.**  
Johnson, J.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1982 (pub. 1984). 1982 (pub. 1984). (61st). p. 83-84. (NAL Call No.: 94.69 T31).

1604

**Pecan insect and disease control-1982.**  
Taylor, G. Stillwater : The Service. OSU current report - Oklahoma State University, Cooperative Extension Service. 1984. v. 77 (3/4). 4 p. (NAL Call No.: DNAL S451.0508).

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**Pecan nut loss from pollination to harvest.**  
JEENAI. Harris, M.K. Cutler, B.L.; Ring, D.R. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1986. v. 79 (6). p. 1653-1657. Includes references. (NAL Call No.: DNAL 421 J822).

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**Pecan phenolics, major obstacles in cloning activities.**  
Graves, C.H. Jr. Diehl, S.; Hedin, P. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. 1988. (81st). p. 41-47. Includes references. (NAL Call No.: DNAL 94.69 G29).

1607

**Pecan phylloplane chemicals influence germination of pecan scab conidia.**  
JOSHB. Wood, B.W. Gottwald, T.R.; Reilly, C.C. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. July 1988. v. 113 (4). p. 616-619. Includes references. (NAL Call No.: DNAL 81 S012).

1608

**Pecan scab and its control.**  
Johnson, J.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting (65th) held on July 19-21, 1986, Fort Worth, Texas. 1988. v. 64. p. 10. (NAL Call No.: DNAL 94.69 T31).



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1609

**Pecan scab control with various fungicides and application schedules (*Fusicladium effusum*, Alabama).**

McVay, J.R. Gazaway, W.S. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 213-216. Includes 12 ref. (NAL Call No.: 94.69 G29).

1610

**Performance of some sterol-inhibiting fungicides against pecan scab *Cladosporium caryigenum*, *Carya illinoensis*.**

Lathan, A.J. Atlanta : Publications South, Inc. Pecan south. July 1984. v. 11 (4). p. 6-10. Includes 14 references. (NAL Call No.: DNAL SB401.P4P4).

1611

**Persistence of fungicides in inhibiting germination of conidia of *Mycosphaerella caryigena*.**

AAREEZ, Goff, W.D. Miller, R.W. New York, N.Y. : Springer. The persistence of inhibitory effects on spore germination of 20 fungicides applied to pecan leaves was measured by cellophane transfer bioassay. The assay fungus was *Mycosphaerella caryigena*, which causes downy spot, a pecan foliar disease. Effectiveness of most fungicides persisted for 14 to 23 days, then declined sharply. Captafol prevented germination of 90% of conidia for nine weeks following treatment. Neither temperature nor simulated rainfall after fungicides dried on leaves affected persistence of benomyl, dodine, or fentin hydroxide under the conditions of this experiment. Applied agricultural research. Summer 1990. v. 5 (3). p. 218-222. Includes references. (NAL Call No.: DNAL S539.5.A77).

1612

**A pest management program for pecans.**

Ring, D.R. Payne, J.A.; Snow, J.W. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. Includes formula for calculating economic losses. 1986. (79th). p. 161-166. Includes references. (NAL Call No.: DNAL 94.69 G29).

1613

**Pollinizer management (rotational dehorning).**

PNGOA. Riggert, C. Tigard, Or. : The Society. Proceedings of the Nut Growers Society of Oregon, Washington & British Columbia. 1989. (74th). p. 44-48. (NAL Call No.: DNAL 94.69 W52).

1614

**Powdery mildews of ornamentals, fruit, shade, and nut trees (includes cultural control).**

Barnes, G.L. Conway, K.E. Stillwater : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Apr 1983. Apr 1983. (7617). 2 p. ill. (NAL Call No.: S544.3.0505).

1615

**Propagating and growing chestnuts.**

NONGA. Bazzigher, G. Lawrenz, K.P.; Ritter, F. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. Report on 20 years research at the Institute. 1984. (75th). p. 119-137. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

1616

**Propiconazole controls pecan scab after an infection period (*Cladosporium caryigenum*).**

Latham, A.J. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Winter 1983. v. 30 (4). p. 9. ill. (NAL Call No.: 100 AL1H).

1617

**Recognize new almond diseases.**

WEFGA. Viveros, M. Willoughby, Ohio : Meister Pub. Co. Western fruit grower. Mar 1987. v. 107 (3). p. 40G. ill. (NAL Call No.: DNAL 80 G85W).

1618

**Reduction of mycoflora and control of in-shell weevils (*Curculio caryae*) in pecans stored under high carbon dioxide atmospheres (Quality).**

Wells, J.M. AR-SO. Payne, J.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Nov 1980. v. 64 (11). p. 997-999. 12 ref. (NAL Call No.: 1.9 P69P).

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**Reduction of mycoflora and control of inshell weevils in pecans stored under high carbon dioxide atmospheres.**

Wells, J.M. AR-SO. Payne, J.A. St. Paul, Minn., American Phytopathological Society. Phytopathology. June 1980. Abstract only. v. 70 (6). p. 572. (NAL Call No.: 464.8 P56).

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1620

**Relation of early splitting and tattering of pistachio nuts to aflatoxin in the orchard.**  
PHYTAJ. Sommer, N.F. Buchanan, J.R.; Fortlage, R.J. St. Paul, Minn. : American Phytopathological Society. Phytopathology. July 1986. v. 76 (7). p. 692-694. ill. Includes 13 references. (NAL Call No.: DNAL 464.8 P56).

1621

**Research priorities in genetic improvement of Persian walnuts and their rootstocks.**  
NONGA. McGranahan, G.H. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 73-77. Includes references. (NAL Call No.: DNAL 94.69 N81).

1622

**Results of 1980 pecan fungicide trails in South Carolina (*Mycosphaerella caryigena*, *Caryo illinoensis*).**  
Miller, R.W. Goff, W.D.; Price, D. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1981. 1981. 74th). p. 91-95. 8 ref. (NAL Call No.: 94.69 G29).

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**Sooty mold control demonstration on pecans 1981.**  
Cooper, J.N. Storey, J.B.; Drews, D. Bryan, Tx., Texas Pecan Growers Association. The pecan quarterly. May 8, 1982. v. 16 (2). p. 22-23. ill. (NAL Call No.: SB401.A1P4).

1624

**Sooty mold fungus on pecan foliage suppresses light penetration and net photosynthesis.**  
HUHSA. Wood, B.W. Tedders, W.L.; Reilly, C.C. Alexandria, Va. : American Society for Horticultural Science. HortScience. Oct 1988. v. 23 (5). p. 851-853. Includes references. (NAL Call No.: DNAL SB1.H6).

1625

**Sooty mold suppresses photosynthesis, may trigger decline in productivity.**  
PEQUA. Wood, B.W. Tedders, W.L.; Reilly, C.C. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. July/Aug 1988. v. 22 (4). p. 6, 9-10. Includes references. (NAL Call No.: DNAL SB401.A1P4).

1626

**Spore release pattern and control of pecan vein spot disease.**  
LOAGA. Sanderlin, R.S. Horton, K.B. Baton Rouge, La. : The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Spring 1988. v. 31 (3). p. 16-17, 23. ill. (NAL Call No.: DNAL 100 L939).

1627

**Stem canker on black walnut caused by *Fusarium sporotrichiodes*.**  
NONGA. Cummings, J.E. Kuntz, J.E. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 85-92. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

1628

**Super-tin 4L: a new fungicide for the control of pecan scab.**  
Edmundson, R. Atlanta, Ga., Publications South. Pecan South. Apr 1980. v. 7 (3). p. 40-41. (NAL Call No.: SB401.P4P4).

1629

**Survey detects viruses in almond, prune, and sweet cherry orchards.**  
CAGRA. Uyemoto, J.K. Grant, J.A.; Krueger, W.H.; Olson, W.H.; Osgood, J.W.; Sibbet, G.S.; Viveros, M.; Weakley, C.V. Oakland, Calif. : Division of Agriculture and Natural Resources, University of California. California agriculture. Sept/Oct 1989. v. 43 (5). p. 14-15. (NAL Call No.: DNAL 100 C12CAG).

1630

**A survey of juglone levels among walnuts and hickories (*Juglans nigra*, *Carya ovata*, breeding for resistance, fungitoxic and allelopathic constituent, resistance to scab, *Cladosporium caryigenum*).**  
Borazjani, A. PEQUA. Graves, C.H. Jr.; Hedin, P.A. Bryan : Texas Pecan Growers Association. The pecan quarterly. Feb 1983. v. 17 (1). p. 9-13. ill. Includes references. (NAL Call No.: SB401.A1P4).

1631

**Survival of shot-hole inoculum in association with dormant almond buds.**  
PLDRA. Highberg, L.M. Ogawa, J.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Sept 1986. v. 70 (9). p. 828-831. Includes references. (NAL Call No.: DNAL 1.9 P69P).

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1632

**Susceptibility of almond cultivars and stone fruit species to pruning wound cankers caused by *Phytophthora syringae*.**

PLDIDE. Doster, M.A. Bostock, R.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. June 1988. v. 72 (6). p. 490-492. Includes references. (NAL Call No.: DNAL 1.9 P69P).

the Nut Growers Society of Oregon Washington & British Columbia Nut Growers Society of Oregon, Washington and British Columbia. 1980. 1980. p. 113-115. ill. (NAL Call No.: 94.69 W52).

1633

**Two diseases of pecans could cause serious losses in 1980.**

Johnson, J.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 14-16, 1980, Abilene, Texas. 1981. v. 59. p. 53-54. (NAL Call No.: DNAL 94.69 T31).

1634

**Using low-volume and dilute pesticide sprayers in pecan production (for the control of pecan scab, *Fusicladium effusum*, and the hickory shuckworm *Laspeyresia caryana*).**

Smith, J.S. Jr. Starkville, Miss. Proceedings ... annual convention Southeastern Pecan Growers Association. 1979. 1979. (72d). p. 87-91. ill. 9 ref. (NAL Call No.: 94.69 G29).

1635

***Xylosandrus germanus* (Blandf.) (Coleoptera: Scolytidae), a new pest of black walnut (*Juglans nigra*): a review of its distribution, host plants, and environmental conditions of attack (Includes association with *Fusarium* species).**

Weber, B.C. St. Paul, Minn., The Station. USDA Forest Service general technical report NC-United States. North Central Forest Experiment Station. 1979. 1979. (52). p. 63-68. ill., map. 30 ref. (NAL Call No.: ASD11.A352).

1636

**Yield reduction in almond related to incidence of shot-hole disease.**

PLDRA. Highberg, L.M. Ogawa, J.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Sept 1986. v. 70 (9). p. 825-828. Includes 7 references. (NAL Call No.: DNAL 1.9 P69P).

1637

**1979-80 progress report on Eastern Filbert Blight (Caused by the canker producing fungus, *Anisogramma anomala*).**

Cameron, H.R. Sisemore, D.; Gottwald, T. Tigard, Ore., Nut Growers Society of Oregon, Washington and British Columbia. Proceedings of



# PLANT DISEASES - BACTERIAL

1638

**Bacterial involvement in late season drop and kernal discolor of pecan.**

Reilly, C.C. Tedders, W.L. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 195-199. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1639

**Effect of fungicides on shot hole disease of almonds.**

CAGRA. Teviotdale, B.L. Viveros, M.; Freeman, M.W.; Sibbett, G.S. Oakland, Calif. : Division of Agriculture and Natural Resources, University of California. California agriculture. May/June 1989. v. 43 (3). p. 21-23. (NAL Call No.: DNAL 100 C12CAG).

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**Effect of soil solarization on populations of selected soilborne microorganisms and growth of deciduous fruit tree seedlings (English walnut (*Juglans regia*), peach (*Prunus persica*) as indicator crops, soil bacteria and fungi).**  
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Moller, W.J. Sacramento, California Almond Growers Exchange. Almond facts. Nov/Dec 1978. v. 43 (6). p. 16. ill. (NAL Call No.: 280.28 AL62).

1643

**Restriction enzyme analysis of plasmids from syringomycin-producing strains of *Pseudomonas syringae* (isolated from millet, apricot and almond, *Prunus amygdalus*).**

Gonzalez, C.F. Vidaver, A.K. St. Paul, Minn., American Phytopathological Society. Phytopathology. Mar 1980. v. 70 (3). p. 223-225. ill. 15 ref. (NAL Call No.: 464.8 P56).

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# PLANT DISEASES - VIRAL

1645

**The effect of bunch disease on pecan yield and quality (Virus).**

Bertrand, P.F. Gottwald, T.R.; Roberts, D.W.  
Starkville, Miss. : The Association.  
Proceedings ... annual convention -  
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references. (NAL Call No.: 94.69 G29).

1646

**Research priorities in genetic improvement of Persian walnuts and their rootstocks.**

NONGA. McGranahan, G.H. Hamden, Conn. : The  
Association. Annual report of the Northern Nut  
Growers Association. 1987. (78th). p. 73-77.  
Includes references. (NAL Call No.: DNAL 94.69  
N81).

# PLANT DISEASES - PHYSIOLOGICAL

1647

## **Association of endogenous growth substances to premature shuck opening of pecan.**

PLAAA. Chin, K.L. Young, W.A. S.I. : The Academy. The proceedings of the Louisiana Academy of Sciences. Dec 1985. v. 48. p. 1-5. Includes references. (NAL Call No.: DNAL 500 L932).

1648

## **Current recommendations for leaf P levels too low, study shows.**

PEQUA. Sparks, D. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. Literature review. Jan/Feb 1989. v. 23 (1). p. 9-13. Includes references. (NAL Call No.: DNAL SB401.A1P4).

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## **Effects of gibberellic acid and alar on pecan shuck disease and yield (Physiological diseases).**

Chin, K.L. Young, W.A.; Newsom, D.W. (s.l.), The Academy. The proceedings of the Louisiana Academy of Sciences. 1980. v. 43. p. 18-21. 21 ref. (NAL Call No.: 500 L932).

1650

## **Effects of magnesium sulfate sprays on growth and elemental concentration of pecan seedlings.**

HJHSA. Sparks, D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1,section 1). p. 108-109. Includes references. (NAL Call No.: DNAL SB1.H6).

1651

## **Further observations on the toxicity of black walnut on tomatoes and some other plants (Juglans nigra).**

MacDaniels, L.H. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. (71st). p. 112-126. ill. Includes 8 ref. (NAL Call No.: 94.69 N81).

1652

## **Growth and nutritional status of pecan in response to phosphorus.**

JOSH. Sparks, D. Alexandria, Va. : The Society. Effects of applied P on pecan *Carya illinoensis* (Wangenh.) C. Koch were studied in the greenhouse and field. Objectives were to study P effects on vegetative and nut growth, leaf scorch and/or premature defoliation, and nutrition. Elements were analyzed for both total and extractable (2% acetic acid) fractions. In the greenhouse, deficiency symptoms occurred when leaf P (dry-weight

basis) was 0.08%; vegetative growth was maximum when P was 0.019% to 0.22%. In the field, applied P increased nut growth and decreased leaf scorch and premature defoliation. Leaf P values for maximum nut growth and minimum leaf scorch and/or defoliation are greater than 0.14% and 0.16%, respectively. Except when P was within the visible deficiency range, applied P had little direct influence on the concentration of other essential elements under either greenhouse or field conditions. Generally, extractable P was a slightly better indicator of the P status of the tree than total P, but the differences are of doubtful physiological significance. Journal of the American Society for Horticultural Science. Nov 1988. v. 113 (6). p. 850-859. Includes references. (NAL Call No.: DNAL 81 S012).

1653

## **Pecan leaf scorch in response to various combinations of nitrogen and potassium fertilization.**

HJHSA. Worley, R.E. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1990. v. 25 (4). p. 422-423. Includes references. (NAL Call No.: DNAL SB1.H6).

1654

## **Salt effects on seedling growth and ion uptake of three pecan rootstock cultivars.**

AGJOAT. Miyamoto, S. Gobran, G.R.; Piela, K. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1985. v. 77 (3). p. 383-388. Includes references. (NAL Call No.: DNAL 4 AM34P).

1655

## **Soil and plant analysis and symptomology for diagnosis of mineral deficiencies and toxicities (Almonds).**

Uriu, K. Sacramento, California Almond Growers Exchange. Almond facts. Mar/Apr 1981. v. 46 (2). p. 45-48. (NAL Call No.: 280.28 AL62).

1656

## **Trunk injection for pecan tree health.**

Worley, R.E. Littrell, R.H.; Dutcher, J.D. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. 1986. v. 63. p. 29-31. ill. Includes references. (NAL Call No.: DNAL 94.69 T31).



(PLANT DISEASES - PHYSIOLOGICAL)

1657

**Zinc deficiency inhibits reproductive development in 'Stuart' pecan.**

HJHSA. Hu, H. Sparks, D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Nov 1990. v. 25 (11). p. 1392-1396. Includes references. (NAL Call No.: DNAL SB1.H6).

# MISCELLANEOUS PLANT DISORDERS

1658

**Bark stress caused by trunk shaker displacements (Fruit and nut harvesting damage, USA).**

Brown, G.K. Segerlind, L.J.; Richey, P.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-1066). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

1659

**Boron applications show few benefits.**

PEQUA. Worley, R. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. July/Aug 1988. v. 22 (4). p. 13-14. Includes references. (NAL Call No.: DNAL SB401.A1P4).

1660

**Cold damage in pecan trees and scion wood.**

NONGA. Smith, M.W. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 2-5. Includes references. (NAL Call No.: DNAL 94.69 N81).

1661

**Cold damage in pecans.**

McEachern, G.R. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 46-47. (NAL Call No.: DNAL 94.69 T31).

1662

**Cold injury susceptibility of pecan as influenced by cultivar, carbohydrates, and crop land.**

HJHSA. Wood, B.W. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1986. v. 21 (2). p. 285-286. Includes references. (NAL Call No.: DNAL SB1.H6).

1663

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Wood, B.W. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1986.

(79th). p. 55-59. Includes references. (NAL Call No.: DNAL 94.69 G29).

1664

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MacDaniels, L.H. NONGA. Pratt, A. Hamden : The Association. Annual report - Northern Nut Growers Association. 1982. 1982. (73rd). p. 57-62. ill. Includes references. (NAL Call No.: 94.69 N81).

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Hagler, T.B. Boutwell, J.L.; Johnson, L. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1980. 1980. (73d). p. 99-105. ill. (NAL Call No.: 94.69 G29).

1666

**Deep supercooling in stem and bud tissues of pecan.**

HJHSA. Rajashekar, C.B. Reid, W. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1989. v. 24 (2). p. 348-350. Includes references. (NAL Call No.: DNAL SB1.H6).

1667

**Disruption of navel orangeworm (Lepidoptera: Pyralidae) oviposition by almond by-products.**

JEENAI. Van Steenwyk, R.A. Barnett, W.W. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1987. v. 80 (6). p. 1291-1296. Includes references. (NAL Call No.: DNAL 421 J822).

1668

**Drought stress induces fruit abortion in pecan.**

HJHSA. Sparks, D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1989. v. 24 (1). p. 78-79. Includes references. (NAL Call No.: DNAL SB1.H6).

1669

**Effect of broadcast ann band application on zinc uptake by pecan trees (Rosette deficiency).**

Payne, J.A. Sparks, D. Atlanta, Ga., Publications South. Pecan South. Jan 1982. v. 9 (1). p. 35-37. ill. Includes 10 ref. (NAL Call No.: SB401.P4P4).

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1670

**Effect of calcium in offsetting defoliation induced by ethephon in pecan.**

Martin, G.C. Campbell, R.C.; Carlson, R.M. Mount Vernon, Va., The Society. Journal of the American Society for Horticultural Science. American Society for Horticultural Science. Jan 1980. v. 105 (1). p. 34-37. ill. 9 ref. (NAL Call No.: 81 S012).

1671

**The effect of drastic reduction of water input on mature walnut trees (*Juglans regia*, minimal irrigation, kernel weight).**

Martin, G.C. Uriu, K.; Nishijima, C. Alexandria, Va., American Society for Horticultural Science. HortScience. Apr 1980. v. 15 (2). p. 157-158. ill. 3 ref. (NAL Call No.: SB1.H6).

1672

**The effect of metham on the growth of almond and peach seedlings.**

Lourens, A.F. Lange, A.H. S.I. : Western Society of Weed Science. Research progress report - Western Society of Weed Science. 1987. p. 97-98. (NAL Call No.: DNAL 79.9 W52R).

1673

**The effects of aphids and aphidicides on photosynthesis of young pecan leaves.**

Wood, B. Tedders, W.L.; Payne, J. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 73-76. Includes references. (NAL Call No.: 94.69 G29).

1674

**Effects of flooding and soil phosphorus levels on pecan seedlings.**

HJHSA. Wazir, F.K. Smith, M.W.; Akers, S.W. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1988. v. 23 (3). p. 595-597. Includes references. (NAL Call No.: DNAL SB1.H6).

1675

**Effects of potassium and nitrogen on leaf scorch and yield of "desirable" pecans.**

Worley, R. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 127-131. Includes references. (NAL Call No.: 94.69 G29).

1676

**Evaluation of pecan nut damage in a pest managed commercial orchard (Pesticide, Oklahoma).**

Eikenbary, R.D. Hedger, G.H.; McNew, R.W. Starkville : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1983. 1983. (76th). p. 155. Includes references. (NAL Call No.: 94.69 G29).

1677

**Extreme drought induces fruit drop in pecan.**

PEQUA. Sparks, D. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. May/June 1989. v. 23 (3). p. 14-15. Includes references. (NAL Call No.: DNAL SB401.A1P4).

1678

**A follow-up of 1976 winter injury to Western Schley and Wichita pecan trees (*Carya illinoensis*).**

Sullivan, D.T. Herrera, E. Atlanta, Ga., Publications South. Pecan South. June 1981. v. 8 (4). p. 11-13. 3 ref. (NAL Call No.: SB401.P4P4).

1679

**Fruit drop in pecan is enhanced by extreme drought.**

NONGA. Sparks, D. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1989. (80th). p. 37-39. Includes references. (NAL Call No.: DNAL 94.69 N81).

1680

**Grafting and cutting propagation of pecans.**

Smith, M.W. Seattle, Wash. : The Society. Combined proceedings - International Plant Propagators' Society. Southern Region 11th Annual Meeting held October 19-22, 1986, Tulsa, Oklahoma. 1987. v. 36. p. 414-418. Includes references. (NAL Call No.: DNAL 451 P692).

1681

**Impact of ozone on growth of peach, apricot, and almond.**

HJHSA. McCool, P.M. Musselman, R.C. Alexandria, Va. : American Society for Horticultural Science. HortScience. Nov 1990. v. 25 (11). p. 1384-1385. Includes references. (NAL Call No.: DNAL SB1.H6).



## (MISCELLANEOUS PLANT DISORDERS)

1682

### **Influence of a spring freeze on fruitfulness of 'Western' pecan.**

Malstrom, H.L. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 14-16, 1980, Abilene, Texas. 1981. v. 59. p. 48. (NAL Call No.: DNAL 94.69 T31).

1683

### **Influence of freeze damage on fruitfulness of the pecan (in the El Paso valley of west Texas).**

Malstrom, H.L. PEQUA. Jones, J.R.; Riley, T.D. Bryan : Texas Pecan Growers Association. The pecan quarterly. Nov 1982. v. 16 (4). p. 13-17. ill. Includes references. (NAL Call No.: SB401.A1P4).

1684

### **Influence of single applications of fungicides on net photosynthesis of pecan (*Carya illinoensis*, adverse effects of foliar sprays for control of *Caldosporium caryigenum*).**

Wood, B. Gottwald, T.; Payne, J. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 427-428. Includes references. (NAL Call No.: 1.9 P69P).

1685

### **Influence of single applications of insecticides on net photosynthesis of pecan (*Carya illinoensis*).**

Wood, B. Payne, J. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1984. v. 19 (2). p. 265-266. ill. Includes references. (NAL Call No.: SB1.H6).

1686

### **Inhibition of flower receptivity and pollination with fungicidal and insecticidal sprays.**

Wetzstein, H.Y. Starkville, Miss. : The Association. Proceedings of the annual convention - Southeastern Pecan Growers Association. Paper presented at the "82nd Annual Convention of the Southeastern Pecan Growers Association," February 26-28, 1989, Hilton Head Island, South Carolina. 1989. (82nd). p. 49-53. ill. Includes references. (NAL Call No.: DNAL 94.69 G29).

1687

### **Leaf water relations, soil-to-leaf resistance, and drought stress in pecan seedlings.**

JOSHB. Rieger, M. Daniell, J.W. Alexandria, Va. : The Society. Leaf water relations and soil-to-leaf resistance were studied in 3-month-old pecan *Carya illinoensis* (Wangenh.) C. Koch seedlings as soil dried progressively to minimum water potentials of -0.3, -0.6, and -1.1 MPa in three separate tests. Leaf conductance, transpiration, and predawn leaf water potential declined with increasing soil water deficits, and only predawn leaf water potential fully returned to pre-stress levels after rewatering. Reduced levels of leaf conductance following water stress were apparently caused by internal factors other than leaf water potential. Leaf conductance of well-watered seedlings decreased logarithmically and with increasing leaf-to-air vapor pressure gradient. Soil-to-leaf resistance to water flow varied diurnally and generally increased following water stress at minimum soil water potentials of -0.6 and -1.1 MPa. Osmotic adjustment and changes in the distribution of water between the apoplast and symplast in leaves did not occur in response to soil water potentials of -0.6 MPa. Journal of the American Society for Horticultural Science. Sept 1988. v. 113 (5). p. 789-793. Includes references. (NAL Call No.: DNAL 81 S012).

1688

### **Manganese toxicity shows up as brown specks on pecan leaves.**

PEQUA. Storey, J.B. Joy, D.; Sistrunk, L. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Nov 1985. v. 19 (6). p. 32-33. ill. Includes 1 references. (NAL Call No.: DNAL SB401.A1P4).

1689

### **Mexico's stately natives beleaguered by nature.**

PEQUA. Herrera, E. Velo-Duran, L.C. Bryan : Texas Pecan Growers Association. The pecan quarterly. Aug/Oct 1984. v. 18 (3). p. 5-6. ill., maps. (NAL Call No.: DNAL SB401.A1P4).

1690

### **Net photosynthesis of orchard grown pecan leaves reduced by insecticide sprays.**

HJHSA. Wood, B.W. Payne, J.A. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1, section 1). p. 112-113. Includes references. (NAL Call No.: DNAL SB1.H6).

## (MISCELLANEOUS PLANT DISORDERS)

1691

**Notes on severity of tornado damage to Stuart vs. Schley pecan trees.**

NONGA. Sparks, D. Payne, J.A. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 79-80. ill. (NAL Call No.: DNAL 94.69 N81).

1692

**Nut trees in western Nebraska--1984 update.**

NONGA. Lindgren, D.T. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 99-100. (NAL Call No.: DNAL 94.69 N81).

1693

**Protecting almonds against freezing temperatures.**

Snyder, R.L. Sacramento, California Almond Growers Exchange. Almond facts. Nov/Dec 1981. v. 46 (6). p. 64-65. (NAL Call No.: 280.28 AL62).

1694

**Reduced leaf net photosynthesis of orchard grown pecan by pesticide sprays.**

Wood, B.W. Payne, J.A.; Gottwald, T.R. Starkville, Miss. : The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1985. (78th). p. 69-72. Includes references. (NAL Call No.: DNAL 94.69 G29).

1695

**Reduction of frost injury to almond by control of ice nucleation active bacteria (*Pseudomonas syringae*, *Prunus dulcis*, biological control).**

Lindow, S.E. JOSH. Connell, J.H. Alexandria : The Society. Journal of the American Society for Horticultural Science. Jan 1984. v. 109 (1). p. 48-53. ill. Includes references. (NAL Call No.: 81 S012).

1696

**Relationship of leaf elemental concentrations and yield to cold damage of 'Western' pecan.**

HJHSA. Smith, M.W. Cotton, B.C. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1985. v. 20 (3, section I). p. 420-422. ill. Includes 8 references. (NAL Call No.: DNAL SB1.H6).

1697

**Repairing hurricane injured pecan trees (Texas Gulf Coast counties).**

McEachern, G.R. PEQUA. Bryan : Texas Pecan Growers Association. The pecan quarterly. Aug 1983. v. 17 (3). p. 3-5. ill. (NAL Call No.: SB401.A1P4).

1698

**Root deterioration of black walnut seedlings during overwinter storage in Wisconsin (*Juglans nigra*, damage from subfreezing soil temperatures).**

Tisserat, N. Kuntz, J.E. Washington, D.C. : The Service. Tree planters' notes - United States, Forest Service. Spring 1984. v. 35 (2). p. 31-35. ill. Includes references. (NAL Call No.: 1.962 C5T71).

1699

**'Schley' vs. 'Stuart': 'Schley' sustains more tornado damage.**

PEQUA. Sparks, D. Payne, J.A. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Nov 1985. v. 19 (6). p. 10, 12, 31. (NAL Call No.: DNAL SB401.A1P4).

1700

**Seasonal effects of flooding on greenhouse-grown seedling pecan trees.**

HJHSA. Smith, M.W. Bourne, R.D. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1989. v. 24 (1). p. 81-83. Includes references. (NAL Call No.: DNAL SB1.H6).

1701

**Soil and plant analysis and symptomology for diagnosis of mineral deficiencies and toxicities (Almonds).**

Uriu, K. Sacramento, California Almond Growers Exchange. Almond facts. Mar/Apr 1981. v. 46 (2). p. 45-48. (NAL Call No.: 280.28 AL62).

1702

**Sprinkler spacing affects almond frost protection.**

CAGRA. Connell, J.H. Snyder, R.L. Berkeley, Calif. : The Station. California agriculture - California Agricultural Experiment Station. Jan/Feb 1989. v. 43 (1). p. 30-32. (NAL Call No.: DNAL 100 C12CAG).

1703

**Stigmatic surface degeneration and inhibition of pollen germination with selected pesticidal sprays during receptivity in pecan.**

JOSHB. Wetzstein, H.Y. Alexandria, Va. : The Society. Commercial pesticide formulations of triphenyltin hydroxide, benomyl plus triphenyltin hydroxide, and phosalone completely inhibited pollen germination of pecan *Carya illinoensis* Wangenh C. Koch when incorporated in in vitro germination media at one-fourth to one times the recommended rates. Scanning electron microscopic evaluations of spray effects on receptive stigmatic surfaces showed varying degrees of injury, ranging from minor surface wrinkling with triphenyltin hydroxide to severe collapse and degeneration of stigma papillae with phosalone treatments. Controlled pollinations 1 hour after pesticide sprays resulted in an inhibition of pollen germination and tube growth. Water sprays followed by pollination resulted in normal pollen adherence, hydration, and germination. Journal of the American Society for Horticultural Science. July 1990. v. 115 (4). p. 656-661. ill. Includes references. (NAL Call No.: DNAL 81 S012).



# PROTECTION OF PLANT PRODUCTS – GENERAL AND MISC.

1704

**Benefits of Temik (aldicarb) (systemic insecticide) on pecans (includes effect on in-shell weight).**  
Powell, W.M. Hendrix, F.F. Starkville, Miss. Proceedings ... annual convention Southeastern Pecan Growers Association. 1979. 1979. (72d). p. 159-160. ill. (NAL Call No.: 94.69 G29).

1705

**Black walnut seed: from tree to seedling (Juglans nigra, includes collecting, testing, storage, sowing).**  
Williams, R.D.XFGTA. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 114-117. 5 ref. (NAL Call No.: aSD11.A352).

1706

**Cardanol in germ and seed oils extracted from cashew nuts obtained by the Oltremare process.**  
Strocchi, A. Lercker, G. Champaign, Ill. Journal American Oil Chemists' Society. June 1979. v. 56 (6). p. 616-619. ill. 15 ref. (NAL Call No.: 307.8 J82).

1707

**Decay organisms of tree nuts and their control.**  
NONGA. Wells, J.M. Payne, J.A. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 35-40. Includes references. (NAL Call No.: DNAL 94.69 N81).

1708

**Elemental composition of tree nuts.**  
Furr, A.K. MacDaniels, L.H. New York. Bulletin of environmental contamination and toxicology. Feb 1979. v. 21 (3). p. 392-396. ill. 14 ref. (NAL Call No.: RA1270.P35A1).

1709

**Melrose, a new pecan cultivar (Carya illinoensis, yields, nut quality).**  
Young, W.A. Meadows, W.A. Baton Rouge, La., The Station. Circular. Louisiana. Agricultural Experiment Station. May 1979. May 1979. (108). 4 p. ill. (NAL Call No.: 100 L93 (2)).

1712

**Mr. Pecan (Processing, grading).**  
Taylor, F. College Station, Texas Pecan Growers Association. The Pecan quarterly. Nov 1978. v. 12 (4). p. 17-21. ill. (NAL Call No.: SB401.A1P4).

1713

**Mycoflora (Alternaria, Pencillium, Aspergillus) and market quality of chestnuts treated with hot water for control of the chestnut weevil.**  
Wells, J.M. Payne, J.A. St. Paul, American Phytopathological Society. Phytopathology. May 1979. v. 69 (5). p. 533. (NAL Call No.: 464.8 P56).

1714

**Pecan kernel color changes during maturation, harvest, storage and distribution (Nuts, quality).**  
Kays, S.J. College Station, Texas Pecan Growers Association. The pecan quarterly. Aug 1979. v. 13 (3). p. 4-8, 11-12, 34. ill. 41 ref. (NAL Call No.: SB401.A1P4).

1710 1711

**Moisture relations of dried peas, shelled almonds and lupins (Stored products). Moisture relations of dried peas, shelled almonds and lupins (Stored products).**  
Pixton, S.W. Pixton, S.W. Henderson, S. Henderson, S. Oxford, Pergamon Press. Oxford, Pergamon Press. Journal of stored products research. Journal of stored products research. June 1979. June 1979. v. 15 (2). v. 15 (2). p. 59-63. ill. p. 59-63. ill. 6 ref. 6 ref. (NAL Call No.: 421 J829). (NAL Call No.: 421 J829).

# PROTECTION OF PLANT PRODUCTS - INSECTS

1715

**Almond moth (*Ephestia cautella*) recapture rates monitored (Insect population levels, with stored-product).**

Goodin, P. SEA-WD~AR-SD. Washington, D.C., The Administration. Agricultural research - U.S. Department of Agriculture, Science and Education Administration. Sept 1980. v. 29 (3). p. 13. ill. (NAL Call No.: 1.98 AG84).

1716

**A comparison of two parasitoids, *Bracon hebetor* (Hymenoptera: Braconidae) and *Venturia canescens* (Hymenoptera: Ichneumonidae), and a predator *Xylocoris flavipes* (Hemiptera: Anthocoridae) in suppressing residual populations of the almond moth, *Ephestia cautella* (Lepidoptera: Pyralidae) (Biological control of stored product pest).**

Press, J.W. Cline, L.D.; Flaherty, B.R. Lawrence : The Society. Journal of the Kansas Entomological Society. Oct 1982. v. 55 (4). p. 725-728. 10 ref. (NAL Call No.: 420 K13).

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Wood, B. Gottwald, T.; Payne, J. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1984. v. 68 (5). p. 427-428. Includes references. (NAL Call No.: 1.9 P69P).

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Dutcher, J.D. Payne, J.A. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 161-169. ill. Includes 7 ref. (NAL Call No.: 94.69 G29).

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Cline, S. Neely, D. St. Paul, Minn., American Phytopathological Society. Plant disease. Dec 1981. v. 65 (12). p. 961-963. 9 ref. (NAL Call No.: 1.9 P69P).

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HJHSA. Wood, B.W. Payne, J.A. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1, section 1). p. 112-113. Includes references. (NAL Call No.: DNAL SB1.H6).

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West Lafayette, Ind.? : Purdue University, 198-?. Abstract: The first loose leaf pesticide applicator training manual in the Purdue University Pesticide Program is intended for preparation for certification in plant agricultural pest control. Insect and mite pests, and disease recognition on feed and small grains, hay and pastures, vegetables, fruits and nuts, and specialty crops are facilitated by pictorial guides with life history and control information. Weed identification and herbicide selection in weed control are thoroughly covered. Another major topic is sprayer equipment and calibration, reinforced by practice calibration problems. Environmental concerns addressed include controlling spray drift, cleaning sprayers, and safe pesticide handling tips. Cover title.~ Category 1a.~ "Agricultural pest control--plant.". 1 v. (various pagings) : ill. (some col.) ; 30 cm. Includes bibliographical references. (NAL Call No.: DNAL SB951.P4621).

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Ball, J.C. College Park, Md., Entomological Society of America. Journal of economic entomology. Aug 1981. v. 74 (4). p. 425-427. 9 ref. (NAL Call No.: 421 J822).



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Ofiara, D.D. Allison, J.R. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 197-204. (NAL Call No.: 94.69 G29).

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1814

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JOSHB. Wetzstein, H.Y. Alexandria, Va. : The Society. Commercial pesticide formulations of triphenyltin hydroxide, benomyl plus triphenyltin hydroxide, and phosalone completely inhibited pollen germination of pecan *Carya illinoensis* Wangenh C. Koch when incorporated in in vitro germination media at one-fourth to one times the recommended rates. Scanning electron microscopic evaluations of spray effects on receptive stigmatic surfaces showed varying degrees of injury, ranging from minor surface wrinkling with triphenyltin hydroxide to severe collapse and degeneration of stigma papillae with phosalone treatments. Controlled pollinations 1 hour after pesticide sprays resulted in an inhibition of pollen germination and tube growth. Water sprays followed by pollination resulted in normal pollen adherence, hydration, and germination. Journal of the American Society for Horticultural Science. July 1990. v. 115 (4). p. 656-661. ill. Includes references. (NAL Call No.: DNAL 81 S012).

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Amling, H.J. Snell, J.; Smith, J.; Brown, V.L. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Spring 1984. v. 31 (1). p. 18. ill. (NAL Call No.: 100 AL1H).

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# SOIL CHEMISTRY AND PHYSICS

1820

## **Acidification of calcareous soils improves zinc absorption of pecan trees.**

JOSHB. Fenn, L.B. Malstrom, H.L.; Riley, T.; Horst, G.L. Alexandria, Va. : The Society. Acidification of < 1% of the effective root zone of a mature pecan tree (*Carya illinoensis* (Wangenh.) C. Koch) significantly increased uptake of Zn into the tree and maintained elevated Zn in leaves for 9 years. Sulfuric acid and ZnSO<sub>4</sub>, applied in a shallow trench, lowered soil pH to a depth of 60 cm and increased solubility of Zn in the acid band. Large concentrations of CaSO<sub>4</sub> were formed. Laboratory tests confirmed the movement and solubility of Zn in soils under conditions similar to those in the field. Tree roots did not grow into the acidified band, presumably due to high salinity, but proliferated extensively at the interface of the acidified band and calcareous soil. Journal of the American Society for Horticultural Science. Sept 1990. v. 115 (5). p. 741-744. ill. Includes references. (NAL Call No.: DNAL 81 S012).

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Ga., Publications South, Inc. Pecan South. Jan  
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1831

## Application of nitrogen fertilizer to control anthracnose of black walnut (*Juglans nigra*, *Gnomonia leptostyla*, Illinois).

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PEQUA. Sparks, D. Bryan, Tex. : Texas Pecan Growers Association. Pecan south including pecan quarterly. Literature review. Jan/Feb 1989. v. 23 (1). p. 9-13. Includes references. (NAL Call No.: DNAL SB401.A1P4).

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PEQUA. Boudreaux, J.E. Jones, L.G.; Young, W.A.; Peterson, F.J.; Lartigue, M.G.; Cunningham, R.L.; Kahlich, C.G. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. July 1985. v. 19 (4). p. 14-21. Includes 18 references. (NAL Call No.: DNAL SB401.A1P4).

1845

**Influence of disk cultivation and subsoiling on productivity of a mature pecan orchard.**  
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Kiss, R.ALMFA. Sacramento : California Almond Growers EXchange. Almond facts. July/Aug 1983. v. 48 (4). p. 30-32. (NAL Call No.: 280.28 AL62).

1847

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White, A.W. Jr. Beaty, E.R.; Tedders, W.L. Atlanta, Ga., Publications South. Pecan South. June 1981. v. 8 (4). p. 24-26, 28-31. ill. 32 ref. (NAL Call No.: SB401.P4P4).

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**Long-term performance of pecan trees when nitrogen application is based on prescribed threshold concentrations in leaf tissue.**  
JOSHB. Worley, R.E. Alexandria, Va. : The Society. A threshold of 2.75% N was most practical for the low end of the sufficiency range when lower, thresholds of 2.25%, 2.50%, 2.75%, and 3.00% were tested on old 'Stuart' pecan *Carya illinoensis* (Wangenh.) C. Koch trees. Application of 224 kg N/ha annually reduced nut size when compared with application of 112 kg/ha made only when leaf N dropped below 2.25%, 2.50%, 2.75%, or 3.00%. Yield and tree growth were similar when 112 kg/ha-1 was applied only when leaf N dropped below 2.75% and when 224 kg/ha-1 was applied annually. No N application was necessary to meet the 2.75% threshold for 3 of the 16 years. Journal of the American Society for Horticultural Science. Sept 1990. v. 115 (5). p. 745-749. Includes references. (NAL Call No.: DNAL 81 S012).

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PEQUA. O'Barr, R.D. Rachal, S.; Koonce, K.L.; Kowalczyk, J. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. Nov 1985. v. 19 (6). p. 22-26. Includes 12 references. (NAL Call No.: DNAL SB401.A1P4).

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Helmers, S.G. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 30. (NAL Call No.: DNAL 94.69 T31).

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Herkert, R.E. Pleasanton, Calif. : Sun-Diamond Growers of California. Sun-diamond grower. Spring 1988. v. 7 (1). p. 24-27. ill. (NAL Call No.: DNAL SB401.A1D5).

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**Use of nitrogen isotopes and a light-textured soil to assess annual contributions of nitrogen from soil and storage pools in mature almond trees.**

JOSH. Weinbaum, S.A. Klein, I.; Muraoka, T.T. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1987. v. 112 (3). p. 526-529. Includes references. (NAL Call No.: DNAL 81 S012).



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Richter, G.J. Fullbrook, Calif., The Society.  
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1859

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**High density planting mandates new research.**

PEQUA. Boudreaux, J.E. Jones, L.G.; Young, W.A.; Peterson, F.J.; Lartigue, M.G.; Cunningham, R.L.; Kahlich, C.G. Bryan : Texas Pecan Growers Association. Pecan south including pecan quarterly. July 1985. v. 19 (4). p. 14-21. Includes 18 references. (NAL Call No.: DNAL SB401.A1P4).

1863

**Influence of disk cultivation and subsoiling on productivity of a mature pecan orchard.**

HJHSA. Wood, B.W. White, A.W. Jr. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1986. v. 21 (1, section 1). p. 66-68. Includes references. (NAL Call No.: DNAL SB1.H6).

1864

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Kilby, M.W. College Station, Tex. : The Association. Proceedings ... annual conference - Texas Pecan Growers Association. Meeting held on July 24-26, 1978, Kerrville, Texas. 1979. v. 57. p. 40-41. (NAL Call No.: DNAL 94.69 T31).

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PEQUA. Malstrom, H.L. Bryan : Texas Pecan Growers Association. The pecan quarterly. Feb/Apr 1984. v. 18 (1). p. 4, 6-13. ill. Includes 20 references. (NAL Call No.: DNAL SB401.A1P4).

1867

**Performance of mature pecan orchard after subsoiling and harrowing (Georgia).**

Wood, B.W. White, A.W. Jr. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 185-188. Includes 4 ref. (NAL Call No.: 94.69 G29).

1868

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Aitken, J.B. Starkville, Miss., The Association. Proceedings ... annual convention - Southeastern Pecan Growers Association. 1982. 1982. (75th). p. 57-64. Includes 7 ref. (NAL Call No.: 94.69 G29).

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NONGA. Schlesinger, R.C. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 91-93. Includes references. (NAL Call No.: DNAL 94.69 N81).

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## (SOIL CULTIVATION)

1871

### **Vegetation management systems in almond orchards.**

CAGRA. Elmore, C.L. Oakland, Calif. : Division of Agriculture and Natural Resources, University of California. California agriculture. July/Aug 1989. v. 43 (4). p. 16-17. (NAL Call No.: DNAL 100 C12CAG).

1872

### **Yield and growth of macadamia trees in response to mulching with macadamia husks.**

HJHSA. DeFrank, J. Foss, S.L. Alexandria, Va. : American Society for Horticultural Science. HortScience. Apr 1989. v. 24 (2). p. 392. Includes references. (NAL Call No.: DNAL SB1.H6).



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1873

**Application of nitrogen fertilizer to control anthracnose of black walnut (*Juglans nigra*, *Gnomonia leptostyla*, Illinois).**  
Neely, D. St. Paul, Minn., American Phytopathological Society. Plant disease. July 1981. v. 65 (7). p. 580-581. Includes 3 ref. (NAL Call No.: 1.9 P69P).

1874

**Black walnut curculio: a factor in walnut production (*Juglans nigra*, *Conotrachelus retentus*, nut drop, economic impact, Missouri trapping studies).**  
Blair, L.M.XFGTA. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 43-46. ill. 3 ref. (NAL Call No.: aSD11.A352).

1875

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NONGA. Gustafson, W.A. Morrissey, T.M.; Nelson, R.O. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 91-94. Includes references. (NAL Call No.: DNAL 94.69 N81).

1876

**Chemical control studies of the walnut caterpillar (*Datana integerrima*, *Juglans nigra*).**  
Farris, M.E. Appleby, J.E. Urbana, Ill., International Society of Arboriculture. Journal of arboriculture. June 1980. v. 6 (6). p. 150-152. ill. 5 ref. (NAL Call No.: SB436.U6).

1877

**Companion planting of black walnut with autumn olive to control *Mycosphaerella* leaf spot of walnut.**  
Kessler, K.J. Jr. Urbana-Champaign : Dept. of Forestry, University of Illinois, 1985. Fifth Central Hardwood Forest Conference : proceedings of a meeting held at the University of Illinois at Urbana-Champaign, Illinois, April 15-17, 1985 / edited by Jeffrey O. Dawson and Kimberly A. Majerus. p. 285-288. ill. Includes references. (NAL Call No.: DNAL SD397.H3C46 1985).

1878

**Control of a molding-root rot complex of black walnut seedlings in storage.**  
PLDIDE. Green, R.J. Jr. St. Paul, Minn. : American Phytopathological Society. Plant disease. May 1985. v. 69 (5). p. 398-400. Includes references. (NAL Call No.: DNAL 1.9 P69P).

1879

**Developments in disease control of walnut anthracnose (*Gnomonia leptostyla*, imperfect stage, *Marssonina juglandis*, fungal leaf pathogens, fertilizer effects).**  
Cline, S.XFGTA. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 35-37. 6 ref. (NAL Call No.: aSD11.A352).

1880

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Robyn, C. Robyn, S. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1979. 1979. (70th). p. 68-70. ill. (NAL Call No.: 94.69 N81).

1881

**Have your woodlot, and harvest it, too.**  
Brusko, M. Emmaus, Pa. : Regenerative Agriculture Association. The New farm. Feb 1988. v. 10 (2). p. 26-29, 41. ill. (NAL Call No.: DNAL S1.N32).

1882

**How sampling allocation schemes affect the accuracy of nut yield estimation (*Juglans nigra*, black walnut).**  
Kung, F.H. (Bethesda, Md.) : Society of American Foresters, 1982. In-place resource inventories : principles & practices : proceedings, workshop, August 9-14, 1981, Univ. of Maine, Orono, / spon. American Society of Photogrammetry...(et al.) ; ed. T.B. Brann, L.O. House IV, H.G. Lund. p. 968-971. Includes references. (NAL Call No.: S494.5.D6I52).

1883

**Improved walnut rootstock and cultivars / Dave Ramos ... et al..**  
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**1884**

### **Improving native pecan groves.**

Gallott, J. Stillwater, Okla. : The Service. OSU extension facts - Cooperative Extension Service, Oklahoma State University. Jan 1989. (6208,rev.). 2 p. (NAL Call No.: DNAL S544.3.0505).

**1885**

**Pruning walnut trees for profit** Cooperative Extension Service ; produced in cooperation with the Nebraska Forest Service ; producer, director, Sandra Cowley ; with Dennis Adams. Adams, Dennis. Lincoln, Neb. : Cooperative Extension Service, Institute of Agriculture and Natural Resources, University of Nebraska, 1987? . Title on container: Pruning black walnut trees for profit. 1 videocassette (VHS) (41 min.) : sd., col. ; 1/2 in. (NAL Call No.: DNAL Videocassette no.508).

**1886**

### **Stem canker on black walnut caused by *Fusarium sporotrichiodes*.**

NONGA. Cummings, J.E. Kuntz, J.E. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 85-92. ill. Includes references. (NAL Call No.: DNAL 94.69 N81).

**1887**

### **Twig girdler, *Oncideres cingulata* (Say), attacks terminals of plantation-managed pecans (*Carya illinoensis*).**

Kennedy, H.E. Solomon, J.D.; Krinard, R.M. New Orleans, The Station. U.S. Forest Service Research note; SO - United States, Southern Forest Experiment Station. 1981. 1981. (263). 4 p. ill. 7 ref. (NAL Call No.: A99.9 F7628U).

**1888**

### **Vegetative propagation of black walnut (*Juglans nigra*).**

Jaciw, P. Larsson, H.C. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. 1980. (71st). p. 70-74. ill. Includes 2 ref. (NAL Call No.: 94.69 N81).

**1889**

### **Zonal selection of nut trees for absolute hardiness (North America).**

Domoto, P.A. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1979. 1979. (70th). p. 46-51. maps. Includes 12 ref. (NAL Call No.: 94.69 N81).

# FORESTRY PRODUCTION – GENERAL

1890

**Remote sensing survey of pecan trees in five Texas cities (*Carya illinoensis*, landscape and city planning).**

Rodgers, L.C. JOARD, Harris, M.K. Urbana : International Society of Arboriculture. Journal of arboriculture. Aug 1983. v. 9 (8). p. 208-213. ill., maps. Includes references. (NAL Call No.: SB436.J6).

1891

**Status report on walnut seed production research at Carbondale.**

NONGA. Schlesinger, R.C. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 91-93. Includes references. (NAL Call No.: DNAL 94.69 N81).



# FORESTRY PROD. - ARTIFICIAL REGENERATION

1892

**Asian nut pine nursery problems (Korean nut pine (*Pinus koraiensis*), Siberian nut pine (*Pinus sibirica*)).**

Larsson, H.C. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1980. 1980. (71st). p. 77-80. (NAL Call No.: 94.69 N81).

1893

**Bareroot fruit & nut treeswholesale Catalog.**

Dave Wilson Nursery. Hughson, Calif. : Dave Wilson Nursery,. Description based on 1986; title from cover. v. ; 28 cm. (NAL Call No.: DNAL SB115.Z9W5651 R).

1894

**Bass Pecan Company, Inc catalog .**

Bass Pecan Company. Lumberton, Miss. : The Company,. Description based on: 1959; title from cover. v. : ill. ; 11 cm. (NAL Call No.: DNAL SB115.Z9B39 R).

1895

**Berkhow Nurseries catalog .**

Berkhow Nurseries. Huxley, Iowa : The Nurseries,. Description based on: 1955; title from cover. v. ; 28 cm. (NAL Call No.: DNAL SB115.Z9B5 R).

1896

**Berry book /Rayner Bros., Inc.**

Rayner Bros., Inc. Salisbury, Md. : Rayner Bros., Inc.,. Description based on: 1985; title from cover. v. : ill. ; 23 cm. (NAL Call No.: DNAL SB115.Z9R39 R).

1897

**Black walnut management costs: results of the 1981 survey (*Juglans nigra*, timber and nut production, United States).**

Marty, T.D.XFGTA. Kurtz, W.B. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 134-137. 4 ref. (NAL Call No.: aSD11.A352).

1898

**Black walnut seed: from tree to seedling.**

Williams, R.D.NONGA. Hamden : The Association. Annual report - Northern Nut Growers Association. 1981. 1981. (72nd). p. 141-146. Includes references. (NAL Call No.: 94.69 N81).

1899

**Black walnut seed: from tree to seedling (*Juglans nigra*, includes collecting, testing, storage, sowing).**

Williams, R.D.XFGTA. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 114-117. 5 ref. (NAL Call No.: aSD11.A352).

1900

**Black walnut tissue culture update.**

NONGA. Stefan, S.J. Millikan, D.F. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1986. (77th). p. 111-112. Includes references. (NAL Call No.: DNAL 94.69 N81).

1901

**Catalog & planting guide /Bass Pecan Company.**

Bass Pecan Company. Lumberton, Miss. : The Company,. Description based on: 1966-67; title from cover. v. : ill. ; 23 cm. (NAL Call No.: DNAL SB115.Z9B39 R).

1902

**Catalog /Lee's Nursery.**

Lee's Nursery. McMinnville, Tenn. : The Nursery,. Description based on: Fall 1985-spring 1986; title from cover. v. : col. ill. ; 28 cm. (NAL Call No.: DNAL SB115.Z9L443 R).

1903

**Cockrell's Riverside Nursery catalog .**

Cockrell's Riverside Nursery. Goldthwaite, Tex. : The Nursery,. Description based on: 1985; title from cover. v. : ill. ; 22 cm. (NAL Call No.: DNAL SB115.Z9C533 R).

1904

**Commercial fruit tree guide /May Nursery Company.**

May Nursery Company. Yakima, Wash.: The Nursery,. Description based on: 1984; title from cover. v. : ill. ; 22 cm. (NAL Call No.: DNAL SB115.Z9M32 R).

1905

**Commercial orchard price list /Fowler Nurseries, Inc. and Garden Center.**

Fowler Nurseries, Inc. and Garden Center (Newcastle, Calif.). Newcastle, Calif. : The Nurseries, -1979. Description based on: 1974-1975; title from cover. v. ; 22-23 cm.

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(NAL Call No.: DNAL SB115.Z9F69 R).

1906

### **Commercial price list.**

Fowler Nurseries, Inc. and Garden Center (Newcastle, Calif.). Newcastle, Calif. : Fowler Nurseries, Inc. and Garden Center.. Description based on: 1980-1981; title from cover. v. ; 22 cm. (NAL Call No.: DNAL SB115.Z9F69 R).

1907

### **Cover vegetation in filberts and Christmas trees (No-till methods, Oregon).**

Lagerstedt, H. Corvallis, Or. : International Plant Protection Center, Oregon State University, 1982. Crop production using cover crops and sods as living mulches : workshop proceedings / edited by J.C. Miller and S.M. Bell. p. 56-66. (NAL Call No.: S661.5.C7).

1908

### **A critical look at the expected return on investment from planting black walnut seedlings (*Juglans nigra*, models).**

McCurdy, D.R.XFGTA. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 138-141. 2 ref. (NAL Call No.: aSD11.A352).

1909

### **Field grafting of sweet pecan to bitter pecan rootstock in seasonally flooded bottomlands.**

TPLNA. Dyer, J.M. Cantrell, B.G. Washington, D.C. : The Service. Tree planters' notes - U.S. Department of Agriculture, Forest Service. Summer 1989. v. 40 (3). p. 25-28. ill. Includes references. (NAL Call No.: DNAL 1.962 C5T71).

1910

### **Fruit, nut, shade trees, berries, roses, flowering shrubs, evergreens & grasses /Wells Nursery and Orchards.**

Wells Nursery and Orchards. Lindale, Tex. : The Nursery and Orchards.. Description based on: 1978; title from cover. v. ; 23 cm. (NAL Call No.: DNAL SB115.Z9W443 R).

1911

### **Grafted nut treeprice list.**

Louis Gerardi Nursery. O'Fallon, Ill. : Louis Gerardi Nursery.. Description based on: 1976; title from cover. v. ; 17 cm. (NAL Call No.: DNAL SB115.Z9G38 R).

1912

### **Hardy grafted nut trees price list /Bernath's Nursery.**

Bernath's Nursery. Poughkeepsie, N.Y. : The Nursery.. Description based on: 1956; title from caption. v. ; 16-28 cm. (NAL Call No.: DNAL SB115.Z9B53 R).

1913

### **Here's your catalog from Sierra Gold Nurseries.**

Sierra Gold Nurseries. Yuba City, Calif. : The Nurseries.. Description based on: 1980-1981; title from cover. v. ; col. ill. ; 26 cm. (NAL Call No.: DNAL SB115.Z9S563 R).

1914

### **Home orchard & landscape catalog /Wolfe Nursery.**

Wolfe Nursery. Stephenville, Tex. : The Nursery.. Description based on: 1976; title from cover. v. ; col. ill. ; 28 cm. (NAL Call No.: DNAL SB115.Z9W64 R).

1915

### **How to start walnut trees from seed /prepared by Forest Service, North Central Forest Experiment Station.**

St. Paul, MN : The Station, 1985. "HT-64"--P. 6. 6 p. : ill. ; 23 x 11 cm. (NAL Call No.: DNAL aSB401.W3H6).

1916

### **Musser fall ... wholesale planting listevergreen seedling and transplant.**

Musser Forests, Inc. Indiana, Pa. : Musser Forests, Inc.,. Description based on: 1975; title from verso of t.p. v. : ill. ; 28 cm. (NAL Call No.: DNAL SB115.Z9M871 R).

1917

### **Nut production--a valuable asset in black walnut management (*Juglans nigra*, dual cropping, costs and returns, timber management).**

Garrett, H.E.XFGTA. Kurtz, W.B. St. Paul : The Station. USDA Forest Service general technical report NC - United States, North Central Forest Experiment Station. 1982. 1982. (74). p. 53-56. 5 ref. (NAL Call No.: aSD11.A352).

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1918

### **Nut tree catalogue.**

Hebden H. Corsan (Firm : Hillsdale, Mich.).  
Hillsdale, Mich. : Hebden H. Corsan,.  
Description based on: Spring 1956; title from  
cover. v. : ill. ; 28-44 cm. (NAL Call No.:  
DNAL SB115.Z9C658 R).

1919

### **Physiology and silviculture of black walnut for combined timber and nut production.**

Van Sambeek, J.W.NONGA. Rink, G. Hamden : The  
Association. Annual report - Northern Nut  
Growers Association. 1981. 1981. (72nd). p.  
100-107. Includes references. (NAL Call No.:  
94.69 N81).

1920

### **Physiology and silviculture of black walnut for combined timber and nut production (Juglans nigra).**

Van Sambeek, J.W. Rink, G. Madison : Dept. of  
Forestry, University of Wisconsin-Madison.  
Proceedings of the ... North Central Tree  
Improvement Conference. 1981. Literature  
review. 1981. (2nd). p. 25-33. Includes  
references. (NAL Call No.: SD399.5.N6).

1921

### **Physiology and silviculture of black walnut for combined timber and nut production (Juglans nigra).**

Van Sambeek, J.W.XFGTA. Rink, G. St. Paul : The  
Station. USDA Forest Service general technical  
report NC - United States, North Central Forest  
Experiment Station. 1982. 1982. (74). p. 47-52.  
ill. 34 ref. (NAL Call No.: aSD11.A352).

1922

### **Planting guide & catalog /Miller Nurseries.**

J.E. Miller Nurseries. Canandaigua, N.Y. : The  
Nurseries,. Description based on: 1981; title  
from cover. v. : col. ill. ; 26 cm. (NAL Call  
No.: DNAL SB115.Z9M645 R).

1923

### **Price list /Stuke Nursery Co.**

Stuke Nursery Co. Gridley, Calif. : The  
Nursery,. Description based on: 1974-75; title  
from cover. v. ; 22 cm. (NAL Call No.: DNAL  
SB115.Z9S784 R).

1924

### **Pruning for quality (Black walnut, Juglans nigra).**

Schlesinger, R.C.NONGA. Hamden : The  
Association. Annual report - Northern Nut  
Growers Association. 1981. 1981. (72nd). p.  
135-140. Includes references. (NAL Call No.:  
94.69 N81).

1925

### **Quality plants /Texas Pecan Nursery, Inc.**

Texas Pecan Nursery. Chandler, Tex. : The  
Nursery,. Description based on: 1980; title  
from cover. v. : col. ill. ; 28 cm. (NAL Call  
No.: DNAL SB115.Z9T491 R).

1926

### **Retail price list /May Nursery Company.**

May Nursery Company. Yakima, Wash. : The  
Nursery,. Description based on: Spring 1975;  
title from cover. v. ; 23 cm. (NAL Call No.:  
DNAL SB115.Z9M39 R).

1927

### **Revitalizing slow-growth black walnut plantings.**

XFGTA. Van Sambeek, J.W. Schlesinger, R.C.;  
Roth, P.L.; Bocoum, I. St. Paul, Minn. : The  
Station. USDA Forest Service general technical  
report NC - North Central Forest Experiment  
Station. Paper presented at the Seventh Central  
Hardwood Forest Conference, Mar 5-8, 1989,  
Carbondale, Illinois. 1989. (132). p. 108-114.  
Includes 70 references. (NAL Call No.: DNAL  
aSD11.A352).

1928

### **A silvicultural-economic model for black walnut (Juglans nigra, includes dual cropping systems).**

Kincaid, W.H.XFGTA. Kurtz, W.B.; Garrett, H.E.  
St. Paul : The Station. USDA Forest Service  
general technical report NC - United States,  
North Central Forest Experiment Station. 1982.  
1982. (74). p. 122-127. ill. 10 ref. (NAL Call  
No.: aSD11.A352).

1929

### **Some guidelines for selecting black walnut planting sites (Juglans nigra, soil texture, landform, drainage).**

Ponder, F. Jr.NONGA. Hamden : The Association.  
Annual report - Northern Nut Growers  
Association. 1981. 1981. (72nd). p. 112-117.  
Includes references. (NAL Call No.: 94.69 N81).



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1930

**Some guidelines for selecting black walnut planting sites (*Juglans nigra*, soil variables).**  
Ponder, F. Jr. XFGTA. St. Paul : The Station.  
USDA Forest Service general technical report NC  
- United States, North Central Forest  
Experiment Station. 1982. 1982. (74). p. 69-72.  
8 ref. (NAL Call No.: aSD11.A352).

1931

**Spring ... specials /Waynesboro Nurseries.**  
Waynesboro Nurseries. Waynesboro, Va. : The  
Nurseries,. Description based on: 1981; title  
from cover. v. ; 32 cm. (NAL Call No.: DNAL  
SB115.Z9W372 R).

1932

**Spring catalog /Boatman's Tennessee Nursery & Seed Co.**  
Boatman's Tennessee Nursery & Seed Co.  
Cleveland, Tenn. : The Co.,. Description based  
on: 1979; title from cover. v. : col. ill. ; 28  
cm. (NAL Call No.: DNAL SB115.Z9B6 R).

1933

**Spring sale /Dave Wilson Nursery.**  
Dave Wilson Nursery. Hughson, Calif : The  
Nursery,. Description based on: 1980; title  
from cover. v. ; 15 cm. (NAL Call No.: DNAL  
SB115.Z9W5652 R).

1934

**Wholesale price /from Texas Pecan Nursery, Inc.**  
Texas Pecan Nursery. Chandler, Tex. : The  
Nursery,. Description based on: Fall  
1974-spring 1975; title from cover. v. ; 14 cm.  
(NAL Call No.: DNAL SB115.Z9T49 R).

1935

**Wholesale price list /H & H Wholesale Nursery, Inc.**  
H & H Wholesale Nursery. Las Cruces, N.M. : The  
Nursery,. Description based on: Fall  
1975-spring 1976; title from cover. v. ; 23 cm.  
(NAL Call No.: DNAL SB115.Z9H23 R).

1936

**Wholesale price list /Warren County Nursery, Inc.**  
Warren County Nursery. McMinnville, Tenn. : The  
Nursery,. Description based on: Fall  
1974-spring 1975; title from cover. v. ; 23 cm.  
(NAL Call No.: DNAL SB115.Z9W35 R).

# FOREST MANAGEMENT

1937

**High value crops from New Mexico pinyon pines. I. Crop improvement through woodland stand management.**

Fisher, J.T. Mexal, J.G.; Phillips, G.C. Las Cruces, NM : New Mexico State Univ, Agric Exp Station, Coll of Agric and Home Econ, 1988? . Pinyon-juniper woodlands of New Mexico : a biological and economic appraisal / prepared by Pinyon-Juniper Resource Committee ; James T. Fisher, John G. Mexal and Rex D. Pieper, technical coordinators. In the series analytic: Pinyon-Juniper Woodlands of New Mexico: A Biological and Economic Appraisal, prepared by Pinyon-Juniper Resource Committee, J. T. Fisher, J. G. Mexal and R. D. Pieper, Technical Coordinators.~ Literature review. p. 13-23. ill., maps. Includes references. (NAL Call No.: DNAL SD397.J8P5).

1938

**Investment alternatives for black walnut plantation management (*Juglans nigra*).**

Kurtz, W.B. Garrett, H.E.; Kineaid, W.H. Jr. Santa Cruz : Forest History Society. Journal of forest history. Oct 1984. v. 82 (10). p. 604-608. Includes 14 references. (NAL Call No.: 99.8 F7698).

1939

**A method for converting forest stands to nut tree plantations in the Northeast.**

NONGA. Davies, K.M. Jr. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1984. (75th). p. 27-35. Includes references. (NAL Call No.: DNAL 94.69 N81).

1940

**Nut production and it's importance in black walnut management.**

NONGA. Garrett, H.E. Kurtz, W.B. Hamden, Conn. : The Association. Annual report of the Northern Nut Growers Association. 1987. (78th). p. 23-28. Includes references. (NAL Call No.: DNAL 94.69 N81).

1941

**Physiology and silviculture of black walnut for combined timber and nut production (*Juglans nigra*).**

Van Sambeek, J.W. Rink, G. Madison : Dept. of Forestry, University of Wisconsin-Madison. Proceedings of the ... North Central Tree Improvement Conference. 1981. Literature review. 1981. (2nd). p. 25-33. Includes references. (NAL Call No.: SD399.5.N6).

1942

**Pinyon-juniper woodlands of New Mexico a biological and economic appraisal /prepared by Pinyon-Juniper Resource Committee ; James T. Fisher, John G. Mexal and Rex D. Pieper, technical coordinators.**

Fisher, James T.; Mexal, John G.; Pieper, Rex D. Las Cruces, NM : New Mexico State University, Agricultural Experiment Station, College of Agriculture and Home Economics, 1988? . ii, 53 p. : ill., maps ; 28 cm. Includes bibliographies. (NAL Call No.: DNAL SD397.J8P5).

1943

**Timber and nuts--an economic basis for managing black walnut (*Juglan nigra*).**

Foster, L.H. (s.l.), The Association. Annual report - Northern Nut Growers Association. 1979. 1979. (70th). p. 89-94. Includes 18 ref. (NAL Call No.: 94.69 N81).

# FOREST PRODUCTS - WOOD

1944

**Black walnut for timber and nuts Wilbur R. Mattoon and C.A. Reed . --.**

Mattoon, Wilbur R., 1875-1941. Washington, D.C. : U.S. Dept. of Agriculture, 1933. 28 p. : ill., map --. (NAL Call No.: DNAL Fiche S-70 no.1392 1933).

1945

**Photographic guide to selected external defect indicators and associated internal defects in black walnut.**

Rast, E.D. Beaton, J.A.; Sonderman, D.L. Broomall, Pa. : The Station. Research Paper NE-RP - U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. May 1988. (617). 27 p. ill. Includes references. (NAL Call No.: DNAL A99.9 F7622UN).

1946

**Utilization of black walnut /by Warren D. Brush.**

Brush, Warren David, 1881-. Washington, D.C. : U.S. Dept. of Agriculture, 1921. Caption title.~ "January 17, 1921.". 89 p., 14 p. of plates : ill., maps ; 23 cm. (NAL Call No.: DNAL 1 Ag84B no.909).



# FOREST INJURIES AND PROTECTION

1947

Asian nut pine nursery problems (Korean nut pine (*Pinus koraiensis*), Siberian nut pine (*Pinus sibirica*)).

Larsson, H.C. (s.l.), The Association. Annual report - Northern Nut Growers Association.

1980. 1980. (71st). p. 77-80. (NAL Call No.: 94.69 N81).

# ENTOMOLOGY RELATED

1948

## **ALMOPOL: a cross-pollination and nut set simulation model for almond.**

JOSHB. DeGrandi-Hoffman, G. Roth, S.A.; Loper, G.M. Alexandria, Va. : The Society. ALMOPOL is an interactive computer-based model that simulates the interactions of weather, bloom phenology, blossom quality, and honey bee foraging behavior that culminate in almond *Prunus dulcis* (Mill) D.A. Webb nut set. ALMOPOL enables users to enter orchard conditions, colonies per hectare, and foragers per colony. Information concerning honey bee foraging behaviors and blossom quality (i.e., a blossom's probability of setting a nut if cross-pollinated) can also be entered interactively into the program. Hence, nut set estimates are specific for a given set of weather, orchard, bee behavior, and blossom quality conditions. A description of the logic and data used in ALMOPOL's construction is included. *Journal of the American Society for Horticultural Science*. Jan 1989. v. 114 (1). p. 170-176. Includes references. (NAL Call No.: DNAL 81 S012).

1949

## **Bug-killing cover crops.**

Ayers, L.U. Emmaus, Pa. : Regenerative Agriculture Association. The New farm. May/June 1987. v. 9 (4). p. 33-35. ill. (NAL Call No.: DNAL S1.N32).

1950

## **Effect of temperature and other factors on diapause of pecan weevil: preliminary studies (*Curculio caryae*).**

Sikorowski, P.P. GENSA. Neel, W.W. Athens : The Society. *Journal of the Georgia Entomological Society*. Oct 1982. v. 17 (4). p. 501-505. ill. Includes references. (NAL Call No.: QL461.G4).

1951

## **Effects of pollen traps on honey bee (*Hymenoptera: Apidae*) foraging and brood rearing during almond and prune pollination.**

EVETEX. Webster, T.C. Thorp, R.W.; Briggs, D.; Skinner, J.; Parisian, T. College Park, Md. : Entomological Society of America. *Environmental entomology*. Dec 1985. v. 14 (6). p. 683-686. Includes references. (NAL Call No.: DNAL QL461.E532).

1952

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1883,1915,1923,1982,1989,2016,2021,2023,2024,2045,2050

Carpathian, English or Persian Walnuts (*Juglans regia*)

8,223,445,471,488,603,606,632,696,697,753,772,790,807,827,  
841,848,947,960,962,969,971,1023,1094,1103,1108,1119,1144,  
1145,1303,1456,1457,1477,1548,1599,1621,1640,1646,1671

Black Walnuts (*Juglans nigra*)

12,65,92,107,113,136,189,203,216,235,242-248,296,312,325,  
348,383,396,445,497,508,524,536,552,559,564,565,569,597,600,  
601,606,615,699,700,745,774,777,785,788,810,830,833,839,875,  
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1651,1664,1698,1705,1747,1803,1828,1831,1841,1859,1861,1938,  
1939,1940,1941,1943-1946,2064

Butternuts (*Juglans cinerea*)

40,893,977,1009,1212

Chestnuts (*Castanea sativa*)

49,74,170,271,394,526,632,755,805,957,974,1595,1596,1599,  
1713,1729

Chestnuts (*Castanea dentata*)

157,272

Chinese Chestnuts (*Castanea mellissima*)

19,147,445,603,606,632,749,808,823,1175,1300,1351,1352,1599

Chinkapin or Chinquapin (*Castanea pumila*)

273

Macadamias

14,62,119,163,229,299,303,355,356,456,504,514,541,542,543,  
583,831,861,862,876,892,1123,1751,1793,1858,1872,1995,1997,  
2058

Pistachio nuts (*Pistacia*)

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1560,1620

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5, 8, 24, 25, 37, 52, 80, 93, 115, 133, 170, 190, 230, 326, 327, 385, 400, 423, 475, 476, 502, 519, 522, 651, 653, 656, 660, 661, 662, 666, 686, 692, 797, 812, 838, 871, 881, 887, 891, 911, 930, 943, 952, 959, 968, 971, 1010, 1011, 1014, 1048, 1063, 1066, 1073, 1087, 1092, 1098, 1100, 1116, 1133, 1134, 1139, 1141, 1142, 1147-1152, 1183-1187, 1497, 1498, 1499, 1505-1513, 1518, 1525, 1586, 1612, 1667, 1713, 1715-1734, 1772-1777, 1779, 1794, 1805, 1821, 1833, 1846, 1874, 1876, 1888, 1946-1979, 2061, 2062, 2065

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795, 803, 1038, 1356, 1488-1493

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#### Vertebrate Pests

150, 519, 688, 881, 968, 1110, 1132, 1133, 1139, 1171, 1172, 1176-1182, 1186, 1736

#### Fertilizers

199, 224, 258, 299, 311, 361, 397, 406, 435, 550, 560, 584, 611, 654, 702, 707, 982-1007, 1020, 1022, 1032, 1039, 1046, 1049, 1070, 1077, 1084, 1086, 1117, 1166, 1218, 1232, 1311, 1330, 1463, 1480, 1514, 1535, 1648, 1650, 1652, 1653, 1659, 1669, 1670, 1674, 1675, 1688, 1701, 1749, 1758, 1802, 1819, 1820, 1824, 1825, 1830-1857, 1862, 1870, 1873, 1879, 1892, 2017, 2030, 2031

#### Irrigation

111, 112, 141, 195, 197, 230, 251, 310, 318, 336, 339, 340, 341, 342, 373, 374, 376, 395, 435, 528, 557, 558, 659, 665, 674, 702, 768, 801, 819, 849, 873, 903, 985, 1038, 1105, 1106, 1112, 1118, 1218, 1224, 1306, 1311, 1316, 1348, 1671, 1702, 1749, 1751, 1780, 1802, 1827, 1833, 1842, 1855, 1866, 1868, 1870, 2006-2047



Grading and Standards  
187-190,1710

Storage

198,280,368,657,1044,1045,1250,1423,1522,1618,1619,1705,1707,  
1710,1711,1714-1734,1878,1899,1984,2052

Injuries

6,268,818,960,961,1023-1029,1034,1092,1100,1238,1241,1285,  
1322,1344,1384,1386,1440,1465,1517,1605,1620,1621,1632,1658-  
1666,1674,1675,1676,1680,1681,1691,1699,1814,1849,1853,1945,  
1988,2029,2033

Weather

3,4,5,6,7,8,9,10,31,43,44,450,693,767,775,778,893,894,895,  
896,934,935,944,961,962,981,1024-1029,1062,1076,1091,1104,  
1107,1108,1112,1119,1120,1132,1232,1240,1255,1295,1336,1434,  
1435,1454,1481,1555,1556,1557,1568,1580,1584,1592,1593,1631,  
1660,1661,1662,1663,1665,1668,1677,1678,1679,1682,1683,1687,  
1689,1691,1693,1695,1696,1697,1699,1700,1702,2041,2055,2061

Production

12,14,17,19,20,21,22,25,28,29,30,48,51,53,54,55,56,57,58,59,  
60,61,62,63,64,65,66-880,883-890,892,893,894,898,899,900,901,  
903,907,910,912,913,914,927-931,934,939,945,946,963,964,965,  
973,1089,1090,1093,1099,1132,1138,1147,1148,1156,1157,1158,  
1174,1175,1267,1268,1270,1309,1310,1311,1312,1384,1391,1539,  
1798,1826,1828,1829,1844-1848,1851,1852,1854,1860,1862-1867,  
1869-1872,1880,1881,1882,1884,1885,1888,1891,1892,1895,1902-  
1937,1939,1941-1946,1985-2000,2016-2047,2055-2073

IPM

20,24,26,59,90,118,391,476,522,1131,1140,1143-1147,1152,1154-  
1158,1160,1165,1167,1170,1186,1198,1207,1224,1235,1246,1247,  
1248,1274,1284,1286,1288,1297,1302,1327,1359,1367,1371,1377,  
1378,1385,1400,1401,1429,1433,1438,1483,1484,1485,1486,1502,  
1586,1736,1758,1778,1780,1813,1819,1856,2019

Transportation

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Demonstration Farms

11,23-29,133,346,347,412,430,685,760,864,900,941,942,1147,  
1152,1159,1623

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39, 41, 89, 91, 101, 148, 288, 300, 328, 658, 659, 821, 969, 1030, 1065,  
1102, 1135, 1137, 1141, 1161, 1166, 1168, 1169, 1173, 1174, 1223, 1260,

### Pesticides continued:

1272, 1277, 1279, 1280, 1282, 1293, 1330, 1342, 1403, 1404, 1405, 1422,  
1424, 1456, 1457, 1459, 1463, 1468, 1471, 1478, 1495, 1496, 1504, 1594,  
1612, 1634, 1676, 1694, 1757, 1777, 1779, 1781, 1784, 1785, 1787, 1790,  
1791, 1792, 1793, 1794, 1796-1803, 1805, 1808-1812, 1815, 1856, 1977,  
2000, 2015, 2032, 2033, 2073

### Insecticides

199, 381, 821, 1048, 1069, 1130, 1154, 1190, 1194, 1201, 1218-1221,  
1224-1228, 1236, 1237, 1239, 1253, 1254, 1255, 1265, 1269, 1275, 1276,  
1278, 1283, 1289, 1302, 1306, 1307, 1308, 1315, 1316, 1325, 1338, 1339,  
1340, 1348, 1358, 1370, 1373-1376, 1381, 1382, 1388, 1397, 1399, 1421,  
1427, 1439, 1443, 1444, 1445, 1447, 1453, 1455, 1458, 1460, 1461, 1462,  
1467, 1469, 1470, 1482, 1497, 1498, 1499, 1604, 1673, 1685, 1686, 1690,  
1704, 1724, 1733, 1780, 1784, 1786, 1788, 1795, 1800, 1804, 1805, 1813,  
2018, 2019,

### Fungicides

199, 268, 357, 362, 425, 1069, 1071, 1154, 1155, 1166, 1218, 1219, 1225,  
1226, 1249, 1307, 1373, 1497, 1498, 1499, 1513, 1516, 1520, 1523, 1524,  
1525, 1527-1531, 1541, 1542, 1543, 1550-1554, 1559, 1561-1567, 1569-  
1578, 1582, 1583, 1585, 1587, 1588, 1589, 1600-1604, 1608-1611, 1616,  
1622, 1625, 1628, 1631, 1684, 1686, 1782, 1783, 1795, 1799, 1800, 1806,  
1807, 1822

### Herbicides

267-270, 314, 315, 344, 359, 360, 367, 368, 372, 390, 399, 426, 514, 620,  
636-638, 691, 709, 793, 811, 820, 826, 827, 828, 894, 1012, 1013, 1041,  
1047, 1068, 1085, 1086, 1111, 1164, 1607, 1649, 1672, 1735-1775, 2015



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